

Module Manufacturer		Alpha 230W (by Ningbo)										Alpha 220W (by Ningbo)										Alpha 210W (by Ningbo)										Alpha 180W (by Ningbo)										Alpha 175W (by Ningbo)									
Module Model		TDB125x125-96-P (230W)										TDB125x125-96-P (220W)										TDB125x125-96-P (210W)										TDB125x125-72-P (180W)										TDB125x125-72-P (175W)									
Voltage @ MPT (STC)		46.8 VDC										46.4 VDC										4.7 VDC										3.5 VDC										3.5 VDC									
Current @ MPT (STC)		4.92 ADC										4.74 ADC										5.05 ADC										5.83 ADC										5.83 ADC									
Current, short circuit		5.3 ADC										5.18 ADC										5.05 ADC										5.83 ADC										5.83 ADC									
OCV @ 25 deg C cells		5.6 VDC										5.8 VDC										5.8 VDC										4.4 VDC										4.4 VDC									
Power @ MPT		230.0 W										220.0 W										210.0 W										180.0 W										175.0 W									
PTC Power Rating		0.0 W										0.0 W										0.0 W										0.0 W										0.0 W									
Temp Coeff of Vmp		-0.205 V/degC										-0.204 V/degC										-0.202 V/degC										-0.155 V/degC										-0.154 V/degC									
Temp Coeff of Voc		-0.205 V/degC										-0.204 V/degC										-0.202 V/degC										-0.155 V/degC										-0.154 V/degC									
NOCT (nom. cell temp)		47 deg C										47 deg C										47 deg C										47 deg C										47 deg C									
116.6 deg F																																																			
cool climates only and 5% low voltage tap recommended																																																			
Modules total in array		256										264										288										330										330									
Modules per string		8										8										8										8										8									
Strings in Parallel		32										33										36										41										41									
Voltage @ MPP (STC)		374.4										374.4										374.4										374.4										374.4									
Vmpp @ max amb temp (30C, 86F amb)		321.9										317.2										317.2										317.2										317.2									
Vmpp @ max amb temp (35C, 95F amb)		313.7										310.8										310.8										310.8										310.8									
Vmpp @ max amb temp (40C, 104F amb)		305.5										302.7										302.7										302.7										302.7									
Vmpp @ max amb temp (45C, 113F amb)		297.3										294.5										294.5										294.5										294.5									
Vmpp @ max amb temp (50C, 122F amb)		289.1										286.3										286.3										286.3										286.3									
OCV @ 25 deg C cells		468.8										465.6										465.6										465.6										465.6									
OCV @ coldest temp (-40C, -40F amb)		575.4										575.4										575.4										575.4										575.4									
OCV @ coldest temp (-30C, -22F amb)		559.0										555.4										555.4										555.4										555.4									
OCV @ coldest temp (-20C, -4F amb)		542.6										539.0										539.0										539.0										539.0									
OCV @ coldest temp (-10C, 14F amb)		526.2										522.7										522.7										522.7										522.7									
OCV @ coldest temp (0C, 32F amb)		509.8										506.4										506.4										506.4										506.4									
Power @ MPP (STC)		5880										5800										6040										6400										6400									
PTC AC system power rating		0										0										0										0										0									
Suggested Inverter		PVI 60KW										PVI 60KW										PVI 60KW										PVI 60KW										PVI 60KW									
Module Manufacturer		Alpha 230W (by Ningbo)										Alpha 220W (by Ningbo)										Alpha 210W (by Ningbo)										Alpha 180W (by Ningbo)										Alpha 175W (by Ningbo)									
Module Model		TDB125x125-96-P (230W)										TDB125x125-96-P (220W)										TDB125x125-96-P (210W)										TDB125x125-72-P (180W)										TDB125x125-72-P (175W)									
Voltage @ MPT (STC)		46.8 VDC										46.4 VDC										4.7 VDC										3.5 VDC										3.5 VDC									
Current @ MPT (STC)		4.92 ADC										4.74 ADC										5.05 ADC										5.83 ADC										5.83 ADC									
Current, short circuit		5.3 ADC										5.18 ADC										5.05 ADC										5.83 ADC										5.83 ADC									
OCV @ 25 deg C cells		5.6 VDC										5.8 VDC										5.8 VDC										4.4 VDC										4.4 VDC									
Power @ MPT		230.0 W										220.0 W										210.0 W										180.0 W										175.0 W									
PTC Power Rating		0.0 W										0.0 W										0.0 W										0.0 W										0.0 W									
Temp Coeff of Vmp		-0.205 V/degC										-0.204 V/degC										-0.202 V/degC										-0.155 V/degC										-0.154 V/degC									
Temp Coeff of Voc		-0.205 V/degC										-0.204 V/degC										-0.202 V/degC										-0.155 V/degC										-0.154 V/degC									
NOCT (nom. cell temp)		47 deg C										47 deg C										47 deg C										47 deg C										47 deg C									
116.6 deg F																																																			
cool climates only and 5% low voltage tap recommended																																																			
Modules total in array		256										264										288										330										330									
Modules per string		8										8										8										8										8									
Strings in Parallel		32										33										36										41										41									
Voltage @ MPP (STC)		374.4										374.4										374.4										374.4										374.4									
Vmpp @ max amb temp (30C, 86F amb)		321.9										317.2										317.2										317.2										317.2									
Vmpp @ max amb temp (35C, 95F amb)		313.7										310.8										310.8										310.8										310.8									
Vmpp @ max amb temp (40C, 104F amb)		305.5										302.7										302.7										302.7										302.7									
Vmpp @ max amb temp (45C, 113F amb)		297.3										294.5										294.5										294.5										294.5									
Vmpp @ max amb temp (50C, 122F amb)		289.1										286.3										286.3										286.3										286.3									
OCV @ 25 deg C cells		468.8										465.6										465.6										465.6										465.6									
OCV @ coldest temp (-40C, -40F amb)		575.4										575.4										575.4										575.4										575.4									
OCV @ coldest temp (-30C, -22F amb)		559.0										555.4										555.4										555.4										555.4									
OCV @ coldest temp (-20C, -4F amb)		542.6										539.0										539.0										539.0										539.0									
OCV @ coldest temp (-10C, 14F amb)		526.2										522.7										522.7										522.7										522.7									
OCV @ coldest temp (0C, 32F amb)		509.8										506.4										506.4										506.4										506.4									
Power @ MPP (STC)		5880										5800										6040										6400										6400									
PTC AC system power rating		0										0										0										0										0									
Suggested Inverter		PVI 60KW										PVI 60KW										PVI 60KW										PVI 60KW										PVI 60KW									

Module Manufacturer		Alpha 170W (by Ningbo)												Power @ MPT		170.0 W		For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK																			
Module Model		TDB125x125-72-P (170W)												PTC Power Rating		149.8 W		orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)																			
Voltage @ MPT (STC)		35 VDC												Temp Coeff of Vmp		0.154 V/degC (Vmp)		purple is OK but indicates inverter will limit to 95 kW AC continuous output																			
Current @ MPT (STC)		4.86 ADC												Temp Coeff of Voc		0.154 V/degC (Voc)		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)																			
Current, short circuit		5.36 ADC												NOCT (nom. cell temp)		47 deg C		(note that NEC 690 prohibits system voltage to exceed 600VDC)																			
OCV @ 25 deg C cells		44 VDC												cold climates only and 5% low voltage tap recommended												116.6 deg F											
Modules total in array		330	396	440	495	550	594	616	660	300	360	384	432	480	540	600	624	660																			
Modules per string		11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12																			
Strings in Parallel		30	32	36	40	45	50	54	56	25	30	32	36	40	45	50	52	55																			
Voltage @ MPP (STC)		385.0	385.0	385.0	385.0	385.0	385.0	385.0	385.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0																			
Vmp @ max amb temp (30C, 86F amb)		330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9																			
Vmp @ max amb temp (35C, 95F amb)		322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3	351.6	351.6	351.6	351.6	351.6	351.6	351.6	351.6	351.6																			
Vmp @ max amb temp (40C, 104F amb)		313.9	313.9	313.9	313.9	313.9	313.9	313.9	313.9	342.4	342.4	342.4	342.4	342.4	342.4	342.4	342.4	342.4																			
Vmp @ max amb temp (45C, 113F amb)		305.4	305.4	305.4	305.4	305.4	305.4	305.4	305.4	333.1	333.1	333.1	333.1	333.1	333.1	333.1	333.1	333.1																			
Vmp @ max amb temp (50C, 122F amb)		296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9	323.9	323.9	323.9	323.9	323.9	323.9	323.9	323.9	323.9																			
OCV @ 25 deg C cells		484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0																			
OCV @ coldest temp (-40C, -40F amb)		594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1																			
OCV @ coldest temp (-30C, -22F amb)		577.2	577.2	577.2	577.2	577.2	577.2	577.2	577.2	629.6	629.6	629.6	629.6	629.6	629.6	629.6	629.6	629.6																			
OCV @ coldest temp (-20C, -4F amb)		560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2	611.2	611.2	611.2	611.2	611.2	611.2	611.2	611.2	611.2																			
OCV @ coldest temp (-10C, 14F amb)		543.3	543.3	543.3	543.3	543.3	543.3	543.3	543.3	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7																			
OCV @ coldest temp (0C, 32F amb)		526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	574.2	574.2	574.2	574.2	574.2	574.2	574.2	574.2	574.2																			
Power @ MPP (STC)		5610	6360	6720	7480	8150	8500	8840	9080	10780	11200	11600	12000	12400	12800	13200	13600	14000																			
PTC AC system power rating		4209	5057	5651	6246	7014	7682	8247	8814	9419	12918	15101	15435	16181	16868	17252	18535	19419																			
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 62KW																			

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Module Manufacturer		Aten Solar		Power @ MPP		40.0 W																										
Module Model		ATPV-40		PTC Power Rating		38.5 W																										
Voltage @ MPP (STC)		44 VDC		Temp Coeff of Vmp		0.123 V/degC		(V/mpp)																								
Current @ MPP (STC)		1.92 ADC		Temp Coeff of Vocv		0.165 V/degC		(Vocv)																								
Current, short circuit		1.17 ADC		NOCT (nom. cell temp)		60 deg C		140 deg F																								
OCV @ 25 deg C cells		59 VDC																														
Modules total in array		1170	1260	1350	1440	1530	1620	1755	1845	1935	2025	2115	2205	2250	2340	2385	2430	2520	2592													
Modules per string		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9													
Strings in Parallel		130	140	150	160	170	180	195	205	215	225	235	245	250	260	265	270	280	288													
Voltage @ MPP (STC)		396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0													
Vmpp @ max amb temp (30C, 86F amb)		346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2													
Vmpp @ max amb temp (35C, 95F amb)		340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7													
Vmpp @ max amb temp (40C, 104F amb)		335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1													
Vmpp @ max amb temp (45C, 113F amb)		329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6													
Vmpp @ max amb temp (50C, 122F amb)		324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0													
OCV @ 25 deg C cells		531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0													
OCV @ coldest temp (-40C, -40F amb)		627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5													
OCV @ coldest temp (-30C, -22F amb)		612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7													
OCV @ coldest temp (-20C, -4F amb)		597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8													
OCV @ coldest temp (-10C, 14F amb)		583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0													
OCV @ coldest temp (0C, 32F amb)		568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1	568.1													
Power @ MPP (STC)		46800	54000	57600	61200	64800	70200	72600	77400	81000	84600	88200	90000	93600	95400	97200	100800	103680														
PTC AC system power rating		50618	62327	69636	75245	80854	86463	92072	97681	103290	108899	114508	117763	121018	124273	127528	130783	134038	137293													
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW													

For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 330VDC),
purple is OK but indicates inverter will limit to 95 kW AC continuous output
pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)
(note that NEC 690 prohibits system voltage to exceed 600VDC)

Module Manufacturer		BP Solar		Power @ MPP		195.0 W		For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK																									
Module Model		SX 3195		PTC Power Rating		173.9 W		orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)																									
Voltage @ MPP (STC)		24.4 VDC		Temp Coeff of Vmpp		0.111 V/degC		(Vmpp)		purple is OK but indicates inverter will limit to 95 kW AC continuous output																							
Current @ MPP (STC)		7.96 ADC		Temp Coeff of Vocv		0.111 V/degC		(Vocv)		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)																							
Current, short circuit		8.6 ADC		NOCT (nom. cell temp)		47 deg C		116.6 deg F		(note that NEC 690 prohibits system voltage to exceed 600VDC)																							
OCV @ 25 deg C cells		30.7 VDC																															
cool climates only and 5% low voltage tap recommended																																	
Modules total in array		256		320		352		400		448		480		512		544		576		608		640		672		704		736		768		800	
Modules per string		16		16		16		16		16		16		16		16		16		16		16		16		16		16		16		16	
Strings in Parallel		16		20		22		25		28		30		32		34		36		16		18		21		24		26		28		30	
Voltage @ MPP (STC)		390.4		390.4		390.4		390.4		390.4		390.4		390.4		390.4		390.4		414.8		414.8		414.8		414.8		414.8		414.8		414.8	
Vmpp @ max amb temp (30C, 86F amb)		333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4		
Vmpp @ max amb temp (35C, 95F amb)		324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0		
Vmpp @ max amb temp (40C, 104F amb)		315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	335.5	335.5	335.5	335.5	335.5	335.5	335.5	335.5	335.5	335.5	335.5	335.5		
Vmpp @ max amb temp (45C, 113F amb)		306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	326.1	326.1	326.1	326.1	326.1	326.1	326.1	326.1	326.1	326.1	326.1	326.1		
Vmpp @ max amb temp (50C, 122F amb)		298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	316.7	316.7	316.7	316.7	316.7	316.7	316.7	316.7	316.7	316.7	316.7	316.7		
OCV @ 25 deg C cells		491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	491.2	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9	521.9		
OCV @ coldest temp (-40C, -40F amb)		588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7	625.7		
OCV @ coldest temp (-30C, -22F amb)		571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	571.1	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8		
OCV @ coldest temp (-20C, -4F amb)		553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9		
OCV @ coldest temp (-10C, 14F amb)		535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	535.6	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1		
OCV @ coldest temp (0C, 32F amb)		492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	492.9	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2		
Power @ MPP (STC)		6100	6240	6380	6520	6660	6800	6940	7080	7220	7360	7500	7640	7780	7920	8060	8200	8340	8480	8620	8760	8900	9040	9180	9320	9460	9600	9740	9880	10020	10160		
PTC AC system power rating		42295	52689	58156	60696	63236	65776	68316	70856	73396	75936	78476	81016	83556	86096	88636	91176	93716	96256	97800	99344	100888	102432	103976	105520	107064	108608	110152	111696	113240	114784		
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW		

Module Manufacturer		BP Solar		Power @ MPP		170.0 W		For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK												
Module Model		SX 170B		PTC Power Rating		150.7 W		orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)												
Voltage @ MPP (STC)		35.4 VDC		Temp Coeff of Vmpp		0.16 V/DegC (V/mpp)		purple is OK but indicates inverter will limit to 95 kW AC continuous output												
Current @ MPP (STC)		4.8 ADC		Temp Coeff of Vocv		0.16 V/DegC (Vocv)		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)												
Current, short circuit		5.1 ADC		NOCT (nom. cell temp)		47 deg C		(note that NEC 690 prohibits system voltage to exceed 600VDC)												
OCV @ 25 deg C cells		44.2 VDC		cool climates only and 5% low voltage tap recommended																
Modules total in array		330	352	396	440	495	550	594	616	660	300	360	384	432	480	540	600	624	660	
Modules per string		11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12
Strings in Parallel		30	32	36	40	45	50	54	56	60	25	30	32	36	40	45	50	52	55	
Voltage @ MPP (STC)		389.4	389.4	389.4	389.4	389.4	389.4	389.4	389.4	389.4	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	
Vmpp @ max amb temp (30C, 86F amb)		333.1	333.1	333.1	333.1	333.1	333.1	333.1	333.1	333.1	363.4	363.4	363.4	363.4	363.4	363.4	363.4	363.4	363.4	
Vmpp @ max amb temp (35C, 95F amb)		324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3	324.3	353.8	353.8	353.8	353.8	353.8	353.8	353.8	353.8	353.8	
Vmpp @ max amb temp (40C, 104F amb)		315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.5	315.5	344.2	344.2	344.2	344.2	344.2	344.2	344.2	344.2	344.2	
Vmpp @ max amb temp (45C, 113F amb)		306.7	306.7	306.7	306.7	306.7	306.7	306.7	306.7	306.7	334.6	334.6	334.6	334.6	334.6	334.6	334.6	334.6	334.6	
Vmpp @ max amb temp (50C, 122F amb)		297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	
OCV @ 25 deg C cells		486.2	486.2	486.2	486.2	486.2	486.2	486.2	486.2	486.2	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	
OCV @ coldest temp (-40C, -40F amb)		583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	583.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0	
OCV @ coldest temp (-30C, -22F amb)		565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4	565.4	616.8	616.8	616.8	616.8	616.8	616.8	616.8	616.8	616.8	
OCV @ coldest temp (-20C, -4F amb)		547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	
OCV @ coldest temp (-10C, 14F amb)		530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	530.2	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4	
OCV @ coldest temp (0C, 32F amb)		512.6	512.6	512.6	512.6	512.6	512.6	512.6	512.6	512.6	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	
Power @ MPP (STC)		4793	50659	56922	6324	71240	79155	85488	88654	94986	43176	51811	52565	62173	69871	77716	86351	89805	94986	
PTC AC system power rating		PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW	
Suggested Inverter																				

Module Manufacturer		Canadian Solar Inc.										Canadian Solar Inc.										Canadian Solar Inc.										Canadian Solar Inc.																			
Module Model		CSF6-200										CSF6-190										CSF6-180										CSA5-180										CSF6-170									
Voltage @ MPP (STC)		28.9 VDC										28.8 VDC										28.7 VDC										34.4 VDC										28.7 VDC									
Current @ MPP (STC)		6.93 ADC										6.6 ADC										6.26 ADC										5.23 ADC										5.33 ADC									
Current, short circuit		7.88 ADC										7.33 ADC										6.98 ADC										6.88 ADC										6.82 ADC									
OCV @ 25 deg C cells		36.2 VDC										36 VDC										35.9 VDC										43.2 VDC										35.8 VDC									
Power @ MPP (STC)		273										270										273										319										312									
PTC AC system power rating		PVI 60KW										PVI 60KW										PVI 60KW										PVI 60KW										PVI 60KW									
Modules total in array		13										13										13										13										13									
Modules per string		13										13										13										13										13									
Strings in Parallel		21										21										21										21										21									
Voltage @ MPP (STC)		375.7										375.7										375.7										375.7										375.7									
Vmpp @ max amb temp (30C, 86F amb)		326.2										326.2										326.2										326.2										326.2									
Vmpp @ max amb temp (35C, 95F amb)		317.9										317.9										317.9										317.9										317.9									
Vmpp @ max amb temp (40C, 104F amb)		309.7										309.7										309.7										309.7										309.7									
Vmpp @ max amb temp (45C, 113F amb)		301.4										301.4										301.4										301.4										301.4									
Vmpp @ max amb temp (50C, 122F amb)		293.2										293.2										293.2										293.2										293.2									
OCV @ 25 deg C cells		470.6										470.6										470.6										470.6										470.6									
OCV @ coldest temp (-40C, -40F amb)		571.1										571.1										571.1										571.1										571.1									
OCV @ coldest temp (-30C, -22F amb)		560.7										560.7										560.7										560.7										560.7									
OCV @ coldest temp (-20C, -4F amb)		544.3										544.3										544.3										544.3										544.3									
OCV @ coldest temp (-10C, 14F amb)		527.9										527.9										527.9										527.9										527.9									
OCV @ coldest temp (0C, 32F amb)		511.6										511.6										511.6										511.6										511.6									
Power @ MPP (STC)		54600										54000										53400										52800										52200									
PTC AC system power rating		PVI 60KW										PVI 60KW										PVI 60KW										PVI 60KW										PVI 60KW									

Module Manufacturer		Canadian Solar Inc.										Power @ MPP										170.0 W										For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Module Model		CSA-170										PTC Power Rating										148.1 W										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)									
Voltage @ MPP (STC)		34.4 VDC										Temp Coeff of Vmpp										0.158 V/degC (V/mp)										purple is OK but indicates inverter will limit to 95 kW AC continuous output									
Current @ MPP (STC)		4.95 ADC										Temp Coeff of Vocv										0.158 V/degC (Vocv)										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)									
Current, short circuit		5.32 ADC										NOCT (nom. cell temp)										45 deg C										113 deg F									
OCV @ 25 deg C cells		43.2 VDC										cold climates only and 5% low voltage tap recommended																													
Modules total in array		330	374	418	440	506	572	583	627	671	324	372	420	432	504	576	588	636	672	330	374	418	440	506	572	583	627	671	324	372	420	432	504	576	588	636	672				
Modules per string		11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12				
Strings in Parallel		30	34	38	40	46	52	53	57	61	27	31	35	36	42	48	49	53	56	30	34	38	40	46	52	53	57	61	27	31	35	36	42	48	49	53	56				
Voltage @ MPP (STC)		378.4	378.4	378.4	378.4	378.4	378.4	378.4	378.4	378.4	412.8	412.8	412.8	412.8	412.8	412.8	412.8	412.8	412.8	378.4	378.4	378.4	378.4	378.4	378.4	378.4	378.4	378.4	412.8	412.8	412.8	412.8	412.8	412.8	412.8	412.8	412.8				
Vmpp @ max amb temp (30C, 86F amb)		326.3	326.3	326.3	326.3	326.3	326.3	326.3	326.3	326.3	355.9	355.9	355.9	355.9	355.9	355.9	355.9	355.9	355.9	326.3	326.3	326.3	326.3	326.3	326.3	326.3	326.3	326.3	355.9	355.9	355.9	355.9	355.9	355.9	355.9	355.9	355.9				
Vmpp @ max amb temp (35C, 95F amb)		317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	317.6	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4	346.4				
Vmpp @ max amb temp (40C, 104F amb)		308.9	308.9	308.9	308.9	308.9	308.9	308.9	308.9	308.9	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	308.9	308.9	308.9	308.9	308.9	308.9	308.9	308.9	308.9	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0				
Vmpp @ max amb temp (45C, 113F amb)		300.2	300.2	300.2	300.2	300.2	300.2	300.2	300.2	300.2	327.5	327.5	327.5	327.5	327.5	327.5	327.5	327.5	327.5	300.2	300.2	300.2	300.2	300.2	300.2	300.2	300.2	300.2	327.5	327.5	327.5	327.5	327.5	327.5	327.5	327.5	327.5				
Vmpp @ max amb temp (50C, 122F amb)		291.5	291.5	291.5	291.5	291.5	291.5	291.5	291.5	291.5	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	291.5	291.5	291.5	291.5	291.5	291.5	291.5	291.5	291.5	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0				
OCV @ 25 deg C cells		475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	518.4	518.4	518.4	518.4	518.4	518.4	518.4	518.4	518.4	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	518.4	518.4	518.4	518.4	518.4	518.4	518.4	518.4	518.4				
OCV @ coldest temp (-40C, -40F amb)		588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2	588.2	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7				
OCV @ coldest temp (-30C, -22F amb)		570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	570.8	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2				
OCV @ coldest temp (-20C, -4F amb)		553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	593.7	593.7	593.7	593.7	593.7	593.7	593.7	593.7	593.7	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	593.7	593.7	593.7	593.7	593.7	593.7	593.7	593.7	593.7				
OCV @ coldest temp (-10C, 14F amb)		536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	584.8	584.8	584.8	584.8	584.8	584.8	584.8	584.8	584.8	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	536.0	584.8	584.8	584.8	584.8	584.8	584.8	584.8	584.8	584.8				
OCV @ coldest temp (0C, 32F amb)		518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7	565.8	565.8	565.8	565.8	565.8	565.8	565.8	565.8	565.8	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7	565.8	565.8	565.8	565.8	565.8	565.8	565.8	565.8	565.8				
Power @ MPP (STC)		5610	6358	7166	7480	8620	9720	9910	11470	11470	12400	12400	12400	12400	12400	12400	12400	12400	12400	5610	6358	7166	7480	8620	9720	9910	11470	11470	12400	12400	12400	12400	12400	12400	12400	12400	12400				
PTC AC system power rating		4674	5289	5912	6232	7156	8091	8257	8860	9403	10252	10252	10252	10252	10252	10252	10252	10252	10252	4674	5289	5912	6232	7156	8091	8257	8860	9403	10252	10252	10252	10252	10252	10252	10252	10252	10252				
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW				

Module Manufacturer		Day4 Energy 48MC		Power @ MPP		190.0 W		For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Module Model		190W		PTC Power Rating		171.1 W		orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)									
Voltage @ MPP (STC)		24 VDC		Temp Coeff of Vmpp		0.11 V/degC (Vmpp)		purple is OK but indicates inverter will limit to 95 kW AC continuous output									
Current @ MPP (STC)		8.3 ADC		Temp Coeff of Vocv		0.11 V/degC (Vocv)		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)									
Current, short circuit		8.3 ADC		NOCT (nom. cell temp)		46 deg C		(note that NEC 690 prohibits system voltage to exceed 600VDC)									
OCV @ 25 deg C cells		29.7 VDC															
cold climates only and 5% low voltage tap recommended																	
Modules total in array																	
Modules per string																	
Strings in Parallel																	
Voltage @ MPP (STC)																	
Vmpp @ max amb temp (30C, 86F amb)																	
Vmpp @ max amb temp (35C, 95F amb)																	
Vmpp @ max amb temp (40C, 104F amb)																	
Vmpp @ max amb temp (45C, 113F amb)																	
Vmpp @ max amb temp (50C, 122F amb)																	
OCV @ 25 deg C cells																	
OCV @ coldest temp (-40C, -40F amb)																	
OCV @ coldest temp (-30C, -22F amb)																	
OCV @ coldest temp (-20C, -4F amb)																	
OCV @ coldest temp (-10C, 14F amb)																	
OCV @ coldest temp (0C, 32F amb)																	
Power @ MPP (STC)																	
PTC AC system power rating																	
Suggested Inverter																	
304	352	400	448	512	576	306	357	408	442	510	578	288	360	432	486	522	576
16	16	16	16	16	16	17	17	17	17	17	17	18	18	18	18	18	18
19	22	25	28	32	36	18	21	24	26	30	34	16	20	24	27	29	32
384.0	384.0	384.0	384.0	384.0	384.0	408.0	408.0	408.0	408.0	408.0	408.0	432.0	432.0	432.0	432.0	432.0	432.0
325.4	325.4	325.4	325.4	325.4	325.4	350.0	350.0	350.0	350.0	350.0	350.0	370.6	370.6	370.6	370.6	370.6	370.6
300.6	300.6	300.6	300.6	300.6	300.6	340.7	340.7	340.7	340.7	340.7	340.7	360.7	360.7	360.7	360.7	360.7	360.7
311.8	311.8	311.8	311.8	311.8	311.8	331.3	331.3	331.3	331.3	331.3	331.3	350.8	350.8	350.8	350.8	350.8	350.8
303.0	303.0	303.0	303.0	303.0	303.0	322.0	322.0	322.0	322.0	322.0	322.0	340.9	340.9	340.9	340.9	340.9	340.9
294.2	294.2	294.2	294.2	294.2	294.2	312.6	312.6	312.6	312.6	312.6	312.6	331.0	331.0	331.0	331.0	331.0	331.0
475.2	475.2	475.2	475.2	475.2	475.2	504.9	504.9	504.9	504.9	504.9	504.9	534.6	534.6	534.6	534.6	534.6	534.6
589.6	589.6	589.6	589.6	589.6	589.6	628.5	628.5	628.5	628.5	628.5	628.5	663.3	663.3	663.3	663.3	663.3	663.3
572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	603.9	603.9	603.9	603.9	603.9	603.9
554.4	554.4	554.4	554.4	554.4	554.4	589.1	589.1	589.1	589.1	589.1	589.1	623.7	623.7	623.7	623.7	623.7	623.7
536.8	536.8	536.8	536.8	536.8	536.8	570.4	570.4	570.4	570.4	570.4	570.4	603.9	603.9	603.9	603.9	603.9	603.9
519.2	519.2	519.2	519.2	519.2	519.2	551.7	551.7	551.7	551.7	551.7	551.7	584.1	584.1	584.1	584.1	584.1	584.1
5775.2	6588.0	7600.0	8512.0	9728.0	10944.0	5814.0	6720.0	7752.0	8396.0	9600.0	10920.0	5472.0	6480.0	7296.0	8208.0	9312.0	10464.0
4967.4	5751.7	6536.0	7320.3	8161.1	9141.9	5001.1	5834.6	6667.7	7223.3	8334.4	9445.5	4705.9	5842.4	7058.9	8413.5	9919.9	11411.9
PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 65KW	PVI 65KW	PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 65KW	PVI 65KW	PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 65KW	PVI 65KW

Module Manufacturer: EPV Solar. Module Model: EPV-50. Voltage @ MPP (STC): 45 VDC. Power @ MPP: 47.2 W. For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK. orange is acceptable but should be avoided where possible (inverter will hold at 330VDC).

Module Manufacturer: EPV Solar. Module Model: EPV-53. Voltage @ MPP (STC): 45 VDC. Power @ MPP: 53.0 W. For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK. orange is acceptable but should be avoided where possible (inverter will hold at 330VDC).

Module Manufacturer: EPV Solar. Module Model: EPV-42. Voltage @ MPP (STC): 45 VDC. Power @ MPP: 42.0 W. For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK. orange is acceptable but should be avoided where possible (inverter will hold at 330VDC).

Module Manufacturer: EPV Solar. Module Model: EPV-40. Voltage @ MPP (STC): 44 VDC. Power @ MPP: 40.0 W. For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK. orange is acceptable but should be avoided where possible (inverter will hold at 330VDC).

Module Manufacturer: ET Solar. Module Model: ET-M572185. Voltage @ MPP (STC): 36.3 VDC. Power @ MPP: 185.0 W. For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK. orange is acceptable but should be avoided where possible (inverter will hold at 330VDC).

Module Manufacturer		ET Solar										180.0 W										For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK															
Module Model		ET-M572 180										Power @ MPP										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)															
Voltage @ MPP (STC)		36.3 VDC										PTC Power Rating										0.0 W															
Current @ MPP (STC)		4.95 ADC										Temp Coeff of Vmp										0.133 V/degC (V/mpp)															
Current, short circuit		5.61 ADC										Temp Coeff of Voc										0.163 V/degC (Voc)															
OCV @ 25 deg C cells		44.6 VDC										NOCT (nom. cell temp)										44.4 deg C															
Modules total in array		308	352	385	418	462	506	550	572	594	300	360	384	420	480	504	540	576	600	308	352	385	418	462	506	550	572	594	300	360	384	420	480	504	540	576	600
Modules per string		11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	
Strings in Parallel		28	32	35	38	42	46	50	52	54	25	30	32	35	40	42	45	48	50	28	32	35	38	42	46	50	52	54	25	30	32	35	40	42	45	48	50
Voltage @ MPP (STC)		399.3	399.3	399.3	399.3	399.3	399.3	399.3	399.3	399.3	435.6	435.6	435.6	435.6	435.6	435.6	435.6	435.6	435.6	399.3	399.3	399.3	399.3	399.3	399.3	399.3	399.3	399.3	435.6	435.6	435.6	435.6	435.6	435.6	435.6	435.6	
Vmp @ max amb temp (30C, 86F amb)		356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	
Vmp @ max amb temp (35C, 95F amb)		349.0	349.0	349.0	349.0	349.0	349.0	349.0	349.0	349.0	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	349.0	349.0	349.0	349.0	349.0	349.0	349.0	349.0	349.0	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	
Vmp @ max amb temp (40C, 104F amb)		341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	341.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	
Vmp @ max amb temp (45C, 113F amb)		334.3	334.3	334.3	334.3	334.3	334.3	334.3	334.3	334.3	364.7	364.7	364.7	364.7	364.7	364.7	364.7	364.7	364.7	334.3	334.3	334.3	334.3	334.3	334.3	334.3	334.3	334.3	364.7	364.7	364.7	364.7	364.7	364.7	364.7	364.7	
Vmp @ max amb temp (50C, 122F amb)		327.0	327.0	327.0	327.0	327.0	327.0	327.0	327.0	327.0	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	327.0	327.0	327.0	327.0	327.0	327.0	327.0	327.0	327.0	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	
OCV @ 25 deg C cells		490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6	535.2	535.2	535.2	535.2	535.2	535.2	535.2	535.2	535.2	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6	535.2	535.2	535.2	535.2	535.2	535.2	535.2	535.2	
OCV @ coldest temp (-40C, -40F amb)		589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	
OCV @ coldest temp (-20C, -4F amb)		571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	623.2	623.2	623.2	623.2	623.2	623.2	623.2	623.2	623.2	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	623.2	623.2	623.2	623.2	623.2	623.2	623.2	623.2	
OCV @ coldest temp (-10C, 14F amb)		553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	
OCV @ coldest temp (0C, 32F amb)		535.4	535.4	535.4	535.4	535.4	535.4	535.4	535.4	535.4	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1	535.4	535.4	535.4	535.4	535.4	535.4	535.4	535.4	535.4	584.1	584.1	584.1	584.1	584.1	584.1	584.1	584.1	
Power @ MPP (STC)		5544.0	6356.0	6930.0	7524.0	8160.0	8796.0	9432.0	9900.0	10296.0	10692.0	10692.0	10692.0	10692.0	10692.0	10692.0	10692.0	10692.0	10692.0	5544.0	6356.0	6930.0	7524.0	8160.0	8796.0	9432.0	9900.0	10296.0	10692.0	10692.0	10692.0	10692.0	10692.0	10692.0	10692.0	10692.0	
PTC AC system power rating		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	

Module Manufacturer		ET Solar										Power @ MPT										155.0 W										For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Module Model		ET-MS72155										PTC Power Rating										0.0 W										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)									
Voltage @ MPT (STC)		35.2 VDC										PTC Power Rating										0.0 W										purple is OK but indicates inverter will limit to 95 kW AC continuous output									
Current @ MPT (STC)		4.4 ADC										Temp Coeff of Vmp										0.172 V/degC (Vmp)										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)									
Current, short circuit		4.98 ADC										Temp Coeff of Voc										0.172 V/degC (Voc)										(note that NEC 690 prohibits system voltage to exceed 600VDC)									
OCV @ 25 deg C cells		43.3 VDC										NOCT (nom. cell temp)										44.4 deg C										111.92 deg F									
Modules total in array		440	484	517	550	572	605	638	660	704	420	456	490	528	564	600	624	660	696	440	484	517	550	572	605	638	660	704	420	456	490	528	564	600	624	660	696				
Modules per string		11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12				
Strings in Parallel		40	44	47	50	52	55	58	60	64	35	38	40	44	47	50	52	55	58	40	44	47	50	52	55	58	60	64	35	38	40	44	47	50	52	55	58				
Voltage @ MPP (STC)		387.2	387.2	387.2	387.2	387.2	387.2	387.2	387.2	387.2	422.4	422.4	422.4	422.4	422.4	422.4	422.4	422.4	422.4	387.2	387.2	387.2	387.2	387.2	387.2	387.2	387.2	387.2	422.4	422.4	422.4	422.4	422.4	422.4	422.4	422.4	422.4				
Vmp @ max amb temp (30C, 86F amb)		311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	311.6	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7				
Vmp @ max amb temp (35C, 95F amb)		342.1	342.1	342.1	342.1	342.1	342.1	342.1	342.1	342.1	351.4	351.4	351.4	351.4	351.4	351.4	351.4	351.4	351.4	342.1	342.1	342.1	342.1	342.1	342.1	342.1	342.1	342.1	351.4	351.4	351.4	351.4	351.4	351.4	351.4	351.4	351.4				
Vmp @ max amb temp (40C, 104F amb)		312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	312.7	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1				
Vmp @ max amb temp (45C, 113F amb)		303.2	303.2	303.2	303.2	303.2	303.2	303.2	303.2	303.2	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	303.2	303.2	303.2	303.2	303.2	303.2	303.2	303.2	303.2	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8				
Vmp @ max amb temp (50C, 122F amb)		293.7	293.7	293.7	293.7	293.7	293.7	293.7	293.7	293.7	320.4	320.4	320.4	320.4	320.4	320.4	320.4	320.4	320.4	293.7	293.7	293.7	293.7	293.7	293.7	293.7	293.7	293.7	320.4	320.4	320.4	320.4	320.4	320.4	320.4	320.4	320.4				
OCV @ 25 deg C cells		476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	519.6	519.6	519.6	519.6	519.6	519.6	519.6	519.6	519.6	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	519.6	519.6	519.6	519.6	519.6	519.6	519.6	519.6	519.6				
OCV @ coldest temp (-40C, -40F amb)		593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	653.8	653.8	653.8	653.8	653.8	653.8	653.8	653.8	653.8	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	653.8	653.8	653.8	653.8	653.8	653.8	653.8	653.8	653.8				
OCV @ coldest temp (-30C, -22F amb)		580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4	580.4	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1	633.1				
OCV @ coldest temp (-20C, -4F amb)		561.4	561.4	561.4	561.4	561.4	561.4	561.4	561.4	561.4	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	561.4	561.4	561.4	561.4	561.4	561.4	561.4	561.4	561.4	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5				
OCV @ coldest temp (-10C, 14F amb)		542.5	542.5	542.5	542.5	542.5	542.5	542.5	542.5	542.5	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8	542.5	542.5	542.5	542.5	542.5	542.5	542.5	542.5	542.5	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8	591.8				
OCV @ coldest temp (0C, 32F amb)		523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	571.2	571.2	571.2	571.2	571.2	571.2	571.2	571.2	571.2	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	571.2	571.2	571.2	571.2	571.2	571.2	571.2	571.2	571.2				
Power @ MPP (STC)		68200	75020	80135	82550	86860	92775	98690	102300	109120	65100	70680	74400	77400	81400	87420	93000	96720	102300	68200	75020	80135	82550	86860	92775	98690	102300	109120	65100	70680	74400	77400	81400	87420	93000	96720	102300				
PTC AC system power rating (STP180)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Suggested Inverter		PVI 60kW	PVI 60kW	PVI 60kW	PVI 62kW	PVI 62kW	PVI 62kW	PVI 65kW	PVI 65kW	PVI 65kW	PVI 60kW	PVI 60kW	PVI 60kW	PVI 62kW	PVI 62kW	PVI 62kW	PVI 65kW	PVI 65kW	PVI 65kW	PVI 60kW	PVI 60kW	PVI 60kW	PVI 62kW	PVI 62kW	PVI 62kW	PVI 65kW	PVI 65kW	PVI 65kW	PVI 60kW	PVI 60kW	PVI 60kW	PVI 62kW	PVI 62kW	PVI 62kW	PVI 65kW	PVI 65kW	PVI 65kW				

Module Manufacturer		ET Solar										Power @ MPT										280.0 W										For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Module Model		ET-P672280										PTC Power Rating										250.5 W										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)									
Voltage @ MPT (STC)		36.72 VDC										PTC Power Rating										250.5 W										purple is OK but indicates inverter will limit to 95 kW AC continuous output									
Current @ MPT (STC)		7.63 ADC										Temp Coeff of Vmppt										0.151 V/degC (V/mp)										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)									
Current, short circuit		7.98 ADC										Temp Coeff of Vocpv										0.151 V/degC (Vocv)										(note that NEC 690 prohibits system voltage to exceed 600VDC)									
OCV @ 25 deg C cells		43.78 VDC										NOCT (nom. cell temp)										45.3 deg C										113.54 deg F									
Modules total in array		176	198	242	264	297	330	352	374	396	192	216	240	264	288	312	336	360	384	408	176	198	242	264	297	330	352	374	396	192	216	240	264	288	312	336	360	384	408		
Modules per string		11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12			
Strings in Parallel		16	18	22	24	27	30	32	34	36	16	18	20	22	24	26	28	30	32	34	16	18	22	24	27	30	32	34	36	16	18	20	22	24	26	28	30	32			
Voltage @ MPP (STC)		403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	440.6	440.6	440.6	440.6	440.6	440.6	440.6	440.6	440.6	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	440.6	440.6	440.6	440.6	440.6	440.6	440.6	440.6					
Vmpp @ max amb temp (30C, 86F amb)		353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	353.6	385.7	385.7	385.7	385.7	385.7	385.7	385.7	385.7					
Vmpp @ max amb temp (35C, 95F amb)		345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	376.7	376.7	376.7	376.7	376.7	376.7	376.7	376.7	376.7	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	345.3	376.7	376.7	376.7	376.7	376.7	376.7	376.7	376.7					
Vmpp @ max amb temp (40C, 104F amb)		337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6					
Vmpp @ max amb temp (45C, 113F amb)		328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	328.7	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6					
Vmpp @ max amb temp (50C, 122F amb)		320.4	320.4	320.4	320.4	320.4	320.4	320.4	320.4	320.4	349.5	349.5	349.5	349.5	349.5	349.5	349.5	349.5	349.5	320.4	320.4	320.4	320.4	320.4	320.4	320.4	320.4	320.4	349.5	349.5	349.5	349.5	349.5	349.5	349.5	349.5					
OCV @ 25 deg C cells		481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	525.4	525.4	525.4	525.4	525.4	525.4	525.4	525.4	525.4	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	525.4	525.4	525.4	525.4	525.4	525.4	525.4	525.4					
OCV @ coldest temp (-40C, -40F amb)		589.5	589.5	589.5	589.5	589.5	589.5	589.5	589.5	589.5	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	589.5	589.5	589.5	589.5	589.5	589.5	589.5	589.5	589.5	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1					
OCV @ coldest temp (-30C, -22F amb)		572.9	572.9	572.9	572.9	572.9	572.9	572.9	572.9	572.9	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0	572.9	572.9	572.9	572.9	572.9	572.9	572.9	572.9	572.9	625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0					
OCV @ coldest temp (-20C, -4F amb)		556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9					
OCV @ coldest temp (-10C, 14F amb)		539.7	539.7	539.7	539.7	539.7	539.7	539.7	539.7	539.7	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	539.7	539.7	539.7	539.7	539.7	539.7	539.7	539.7	539.7	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8					
OCV @ coldest temp (0C, 32F amb)		523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1	570.7	570.7	570.7	570.7	570.7	570.7	570.7	570.7	570.7	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1	523.1	570.7	570.7	570.7	570.7	570.7	570.7	570.7	570.7					
Power @ MPP (STC)		4928.0	5440.0	6760.0	7320.0	8316.0	9240.0	9856.0	10760.0	11088.0	11088.0	11088.0	11088.0	11088.0	11088.0	11088.0	11088.0	11088.0	11088.0	4928.0	5440.0	6760.0	7320.0	8316.0	9240.0	9856.0	10760.0	11088.0	11088.0	11088.0	11088.0	11088.0	11088.0	11088.0	11088.0	11088.0					
PTC AC system power rating (STP180)		4120.4	4736.7	5789.3	6315.6	7105.1	7894.5	8420.8	9247.1	9473.4	4593.2	5167.3	5741.5	6156.5	6889.8	7463.9	8038.0	8612.2	9186.3	4120.4	4736.7	5789.3	6315.6	7105.1	7894.5	8420.8	9247.1	9473.4	4593.2	5167.3	5741.5	6156.5	6889.8	7463.9	8038.0	8612.2	9186.3				
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW					

Module Manufacturer		ET Solar		Power @ MPT		255.0 W				For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Module Model		ET-P672255		PTC Power Rating		227.6 W				orange is acceptable but should be avoided where possible (inverter will hold at 330VDC).	
Voltage @ MPT (STC)		35.2 VDC		Temp Coeff of Vmppt		0.152 V/degC		(V/mppt)		purple is OK but indicates inverter will limit to 95 kW AC continuous output	
Current @ MPT (STC)		7.23 ADC		Temp Coeff of Vocv		0.152 V/degC		(Vocv)		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)	
Current, short circuit		7.85 ADC		NOCT (nom. cell temp)		45.3 deg C		113.54 deg F		(note that NEC 690 prohibits system voltage to exceed 600VDC)	
OCV @ 25 deg C cells		43.88 VDC									
Modules total in array											
Modules per string	176	198	242	264	297	330	352	374	418	192	216
Strings in Parallel	11	11	11	11	11	11	11	11	11	12	12
Strings in Parallel	16	18	22	24	27	30	32	34	38	16	18
Voltage @ MPP (STC)	387.2	387.2	387.2	387.2	387.2	387.2	387.2	387.2	387.2	422.4	422.4
Vmpp @ max amb temp (30C, 86F amb)	336.5	336.5	336.5	336.5	336.5	336.5	336.5	336.5	336.5	367.1	367.1
Vmpp @ max amb temp (35C, 95F amb)	336.5	336.5	336.5	336.5	336.5	336.5	336.5	336.5	336.5	358.0	358.0
Vmpp @ max amb temp (40C, 104F amb)	319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8	348.9	348.9
Vmpp @ max amb temp (45C, 113F amb)	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	339.8	339.8
Vmpp @ max amb temp (50C, 122F amb)	303.1	303.1	303.1	303.1	303.1	303.1	303.1	303.1	303.1	330.7	330.7
OCV @ 25 deg C cells	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	526.6	526.6
OCV @ coldest temp (-40C, -40F amb)	591.4	591.4	591.4	591.4	591.4	591.4	591.4	591.4	591.4	645.1	645.1
OCV @ coldest temp (-30C, -22F amb)	574.6	574.6	574.6	574.6	574.6	574.6	574.6	574.6	574.6	626.9	626.9
OCV @ coldest temp (-20C, -4F amb)	557.9	557.9	557.9	557.9	557.9	557.9	557.9	557.9	557.9	608.6	608.6
OCV @ coldest temp (-10C, 14F amb)	541.2	541.2	541.2	541.2	541.2	541.2	541.2	541.2	541.2	590.4	590.4
OCV @ coldest temp (0C, 32F amb)	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5	524.5	572.2	572.2
Power @ MPP (STC)	4488.5	6171.0	6732.0	7375.5	8150.0	8976.0	10659.0	12685.0	14896.0	6129.0	6734.0
PTC AC system power rating	38255	43037	52601	57383	64555	71728	76510	81292	90556	41733	46949
Suggested Inverter	PVI 60kW	PVI 60kW	PVI 60kW	PVI 60kW	PVI 82kW	PVI 82kW	PVI 82kW	PVI 82kW	PVI 82kW	PVI 60kW	PVI 60kW

Module Manufacturer		ET Solar		Power @ MPP (STC)		210.0 W				For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 330VDC), purple is OK but indicates inverter will limit to 95 kW AC continuous output pink is acceptable but should be avoided where possible (inverter will not run above 600VDC) (note that NEC 690 prohibits system voltage to exceed 600VDC)																											
Module Model		ET-P660210		PTC Power Rating		0.0 W																															
Voltage @ MPP (STC)		28.75 VDC		Temp Coeff of Vmpp		0.125 V/degC		(V/mpp)																													
Current @ MPP (STC)		7.3 ADC		Temp Coeff of Voc		0.125 V/degC		(Voc)																													
Current, short circuit		7.99 ADC		NOCT (nom. cell temp)		45.3 deg C		113.54 deg F																													
OCV @ 25 deg C cells		36 VDC																																			
cool climates only and 5% low voltage tap recommended																																					
Modules total in array		286		330		442		494		546		280		336		392		448		504		560		270		330		390		450		510		570			
Modules per string		13		13		13		13		13		14		14		14		14		14		14		15		15		15		15		15		15			
Strings in Parallel		22		26		30		34		38		42		20		24		28		32		36		40		18		22		26		30		34		38	
Voltage @ MPP (STC)		373.8		373.8		373.8		373.8		373.8		402.5		402.5		402.5		402.5		402.5		402.5		431.3		431.3		431.3		431.3		431.3		431.3		431.3	
Vmpp @ max amb temp (30C, 86F amb)		324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5	349.5	349.5	349.5	349.5	349.5	349.5	349.5	349.5	349.5	349.5	349.5	349.5	349.5	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	374.4	
Vmpp @ max amb temp (35C, 95F amb)		316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	365.1	
Vmpp @ max amb temp (40C, 104F amb)		308.3	308.3	308.3	308.3	308.3	308.3	308.3	308.3	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	357.7	357.7	357.7	357.7	357.7	357.7	357.7	357.7	357.7	357.7	357.7	357.7	357.7	357.7	
Vmpp @ max amb temp (45C, 113F amb)		300.1	300.1	300.1	300.1	300.1	300.1	300.1	300.1	323.2	323.2	323.2	323.2	323.2	323.2	323.2	323.2	323.2	323.2	323.2	323.2	346.3	346.3	346.3	346.3	346.3	346.3	346.3	346.3	346.3	346.3	346.3	346.3	346.3	346.3		
Vmpp @ max amb temp (50C, 122F amb)		292.0	292.0	292.0	292.0	292.0	292.0	292.0	292.0	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5	314.5	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9		
OCV @ 25 deg C cells		468.0	468.0	468.0	468.0	468.0	468.0	468.0	468.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0		
OCV @ coldest temp (-40C, -40F amb)		573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	617.8	661.9	661.9	661.9	661.9	661.9	661.9	661.9	661.9	661.9	661.9	661.9	661.9	661.9	661.9		
OCV @ coldest temp (-30C, -22F amb)		557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1	643.1		
OCV @ coldest temp (-20C, -4F amb)		541.1	541.1	541.1	541.1	541.1	541.1	541.1	541.1	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4	624.4		
OCV @ coldest temp (-10C, 14F amb)		524.9	524.9	524.9	524.9	524.9	524.9	524.9	524.9	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	565.3	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6		
OCV @ coldest temp (0C, 32F amb)		508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9		
Power @ MPP (STC)		60060	70980	81900	92820	103740	114660	125580	136500	147420	158340	169260	180180	191100	202020	212940	223860	234780	245700	256620	267540	278460	289380	300300	311220	322140	333060	343980	354900	365820	376740	387660	398580	409500	420420		
PTC AC system power rating		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW			

Module Manufacturer		ET Solar		Power @ MPT		205.0 W		For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 330VDC) purple is OK but indicates inverter will limit to 95 kW AC continuous output pink is acceptable but should be avoided where possible (inverter will not run above 600VDC) (note that NEC 690 prohibits system voltage to exceed 600VDC)																	
Module Model		ET-P654205		PTC Power Rating		183.3 W																			
Voltage @ MPT (STC)		27.3 VDC		Temp Coeff of Vmp		0.113 V/degC (Vmp)																			
Current @ MPT (STC)		7.5 ADC		Temp Coeff of Voc		0.113 V/degC (Voc)																			
Current, short circuit		8.1 ADC		NOCT (nom. cell temp)		45.3 deg C		113.54 deg F																	
OCV @ 25 deg C cells		32.8 VDC		cold climates only and 5% low voltage tap recommended																					
Modules total in array		280	336	392	448	504	574	270	330	390	450	510	570	288	352	400	448	512	576						
Modules per string		14	14	14	14	14	14	15	15	15	15	15	15	16	16	16	16	16	16						
Strings in Parallel		20	24	28	32	36	41	18	22	26	30	36	38	18	22	25	28	32	36						
Voltage @ MPP (STC)		382.2	382.2	382.2	382.2	382.2	382.2	409.5	409.5	409.5	409.5	409.5	409.5	436.8	436.8	436.8	436.8	436.8	436.8						
Vmp @ max amb temp (30C, 86F amb)		334.3	334.3	334.3	334.3	334.3	334.3	358.1	358.1	358.1	358.1	358.1	358.1	382.0	382.0	382.0	382.0	382.0	382.0						
Vmp @ max amb temp (35C, 95F amb)		326.4	326.4	326.4	326.4	326.4	326.4	349.7	349.7	349.7	349.7	349.7	349.7	373.0	373.0	373.0	373.0	373.0	373.0						
Vmp @ max amb temp (40C, 104F amb)		318.4	318.4	318.4	318.4	318.4	318.4	341.2	341.2	341.2	341.2	341.2	341.2	363.9	363.9	363.9	363.9	363.9	363.9						
Vmp @ max amb temp (45C, 113F amb)		310.5	310.5	310.5	310.5	310.5	310.5	332.7	332.7	332.7	332.7	332.7	332.7	354.9	354.9	354.9	354.9	354.9	354.9						
Vmp @ max amb temp (50C, 122F amb)		302.6	302.6	302.6	302.6	302.6	302.6	324.2	324.2	324.2	324.2	324.2	324.2	345.9	345.9	345.9	345.9	345.9	345.9						
OCV @ 25 deg C cells		459.2	459.2	459.2	459.2	459.2	459.2	492.0	492.0	492.0	492.0	492.0	492.0	524.8	524.8	524.8	524.8	524.8	524.8						
OCV @ coldest temp (-40C, -40F amb)		562.0	562.0	562.0	562.0	562.0	562.0	595.0	595.0	595.0	595.0	595.0	595.0	627.8	627.8	627.8	627.8	627.8	627.8						
OCV @ coldest temp (-30C, -22F amb)		546.2	546.2	546.2	546.2	546.2	546.2	585.2	585.2	585.2	585.2	585.2	585.2	624.2	624.2	624.2	624.2	624.2	624.2						
OCV @ coldest temp (-20C, -4F amb)		530.4	530.4	530.4	530.4	530.4	530.4	568.3	568.3	568.3	568.3	568.3	568.3	606.2	606.2	606.2	606.2	606.2	606.2						
OCV @ coldest temp (-10C, 14F amb)		514.6	514.6	514.6	514.6	514.6	514.6	551.3	551.3	551.3	551.3	551.3	551.3	588.1	588.1	588.1	588.1	588.1	588.1						
OCV @ coldest temp (0C, 32F amb)		498.8	498.8	498.8	498.8	498.8	498.8	534.4	534.4	534.4	534.4	534.4	534.4	570.0	570.0	570.0	570.0	570.0	570.0						
Power @ MPP (STC)		5740	6980	8360	9180	10320	11760	5530	6250	7250	8250	9250	11070	11680	5900	7260	8180	9180	10360						
PTC AC system power rating		49014	59817	69820	78423	88226	100480	47664	57767	68274	78733	89250	101628	99779	50415	61618	70021	78423	89826						
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW						

Module Manufacturer		ET Solar										ET-P654180										For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 330VDC) purple is OK but indicates inverter will limit to 95 kW AC continuous output pink is acceptable but should be avoided where possible (inverter will not run above 600VDC) (note that NEC 690 prohibits system voltage to exceed 600VDC)																			
Module Model		ET-P64185										180.0 W																													
Voltage @ MPT (STC)		23.5 VDC										160.4 W																													
Current @ MPT (STC)		8.29 ADC										PTC Power Rating																													
Current, short circuit		8.5 ADC										Temp Coeff of Vmp																													
OCV @ 25 deg C cells		29.2 VDC										Temp Coeff of Voc																													
		NOCT (nom. cell temp)										45.3 deg C										113.54 deg F																			
Modules total in array		cool climates only and 5% low voltage tap recommended																																							
Modules per string		320 416 480 544 576 640 640 340 408 476 527 561 646 324 396 450 540 576 630																																							
Strings in Parallel		16 16 16 16 16 16 16 17 17 17 17 17 17 18 18 18 18 18 18																																							
Voltage @ MPP (STC)		376.0 376.0 376.0 376.0 376.0 376.0 376.0 399.5 399.5 399.5 399.5 399.5 399.5 423.0 423.0 423.0 423.0 423.0 423.0																																							
Vmpp @ max amb temp (30C, 86F amb)		322.8 322.8 322.8 322.8 322.8 322.8 322.8 345.8 345.8 345.8 345.8 345.8 345.8 368.9 368.9 368.9 368.9 368.9 368.9																																							
Vmpp @ max amb temp (35C, 95F amb)		314.9 314.9 314.9 314.9 314.9 314.9 314.9 337.4 337.4 337.4 337.4 337.4 337.4 359.9 359.9 359.9 359.9 359.9 359.9																																							
Vmpp @ max amb temp (40C, 104F amb)		307.1 307.1 307.1 307.1 307.1 307.1 307.1 320.0 320.0 320.0 320.0 320.0 320.0 351.0 351.0 351.0 351.0 351.0 351.0																																							
Vmpp @ max amb temp (45C, 113F amb)		299.3 299.3 299.3 299.3 299.3 299.3 299.3 320.6 320.6 320.6 320.6 320.6 320.6 342.0 342.0 342.0 342.0 342.0 342.0																																							
Vmpp @ max amb temp (50C, 122F amb)		291.4 291.4 291.4 291.4 291.4 291.4 291.4 312.2 312.2 312.2 312.2 312.2 312.2 333.1 333.1 333.1 333.1 333.1 333.1																																							
OCV @ 25 deg C cells		452.9 452.9 452.9 452.9 452.9 452.9 452.9 485.3 485.3 485.3 485.3 485.3 485.3 517.6 517.6 517.6 517.6 517.6 517.6																																							
OCV @ coldest temp (-40C, -40F amb)		554.8 554.8 554.8 554.8 554.8 554.8 554.8 594.5 594.5 594.5 594.5 594.5 594.5 634.1 634.1 634.1 634.1 634.1 634.1																																							
OCV @ coldest temp (-30C, -22F amb)		539.1 539.1 539.1 539.1 539.1 539.1 539.1 577.7 577.7 577.7 577.7 577.7 577.7 616.2 616.2 616.2 616.2 616.2 616.2																																							
OCV @ coldest temp (-20C, -4F amb)		523.5 523.5 523.5 523.5 523.5 523.5 523.5 560.9 560.9 560.9 560.9 560.9 560.9 598.2 598.2 598.2 598.2 598.2 598.2																																							
OCV @ coldest temp (-10C, 14F amb)		507.8 507.8 507.8 507.8 507.8 507.8 507.8 544.1 544.1 544.1 544.1 544.1 544.1 580.3 580.3 580.3 580.3 580.3 580.3																																							
OCV @ coldest temp (0C, 32F amb)		492.1 492.1 492.1 492.1 492.1 492.1 492.1 527.3 527.3 527.3 527.3 527.3 527.3 562.4 562.4 562.4 562.4 562.4 562.4																																							
Power @ MPP (STC)		5540 6520 7520 8520 90720 100800 110880 148680 170280 182080 194080 210080 212080 228080 228080 244080 244080 260080 260080																																							
PTC AC system power rating		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																																							
Suggested Inverter		PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW																																							
Module Manufacturer		ET Solar										ET-P64185										180.0 W										For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 330VDC) purple is OK but indicates inverter will limit to 95 kW AC continuous output pink is acceptable but should be avoided where possible (inverter will not run above 600VDC) (note that NEC 690 prohibits system voltage to exceed 600VDC)									
Module Model		ET-P64180										0.0 W										estimated																			
Voltage @ MPT (STC)		23.5 VDC										0.0 W																													
Current @ MPT (STC)		8.29 ADC										PTC Power Rating																													
Current, short circuit		8.5 ADC										Temp Coeff of Vmp																													
OCV @ 25 deg C cells		29.2 VDC										Temp Coeff of Voc																													
		NOCT (nom. cell temp)										45.3 deg C										113.54 deg F																			
Modules total in array		cool climates only and 5% low voltage tap recommended																																							
Modules per string		320 416 480 544 576 640 640 340 408 476 527 561 646 324 396 450 540 576 630																																							
Strings in Parallel		16 16 16 16 16 16 16 17 17 17 17 17 17 18 18 18 18 18 18																																							
Voltage @ MPP (STC)		376.0 376.0 376.0 376.0 376.0 376.0 376.0 399.5 399.5 399.5 399.5 399.5 399.5 423.0 423.0 423.0 423.0 423.0 423.0																																							
Vmpp @ max amb temp (30C, 86F amb)		327.5 327.5 327.5 327.5 327.5 327.5 327.5 348.0 348.0 348.0 348.0 348.0 348.0 368.5 368.5 368.5 368.5 368.5 368.5																																							
Vmpp @ max amb temp (35C, 95F amb)		319.5 319.5 319.5 319.5 319.5 319.5 319.5 338.9 338.9 338.9 338.9 338.9 338.9 358.8 358.8 358.8 358.8 358.8 358.8																																							
Vmpp @ max amb temp (40C, 104F amb)		310.9 310.9 310.9 310.9 310.9 310.9 310.9 330.3 330.3 330.3 330.3 330.3 330.3 349.7 349.7 349.7 349.7 349.7 349.7																																							
Vmpp @ max amb temp (45C, 113F amb)		302.8 302.8 302.8 302.8 302.8 302.8 302.8 321.7 321.7 321.7 321.7 321.7 321.7 340.6 340.6 340.6 340.6 340.6 340.6																																							
Vmpp @ max amb temp (50C, 122F amb)		294.7 294.7 294.7 294.7 294.7 294.7 294.7 313.1 313.1 313.1 313.1 313.1 313.1 331.6 331.6 331.6 331.6 331.6 331.6																																							
OCV @ 25 deg C cells		467.2 467.2 467.2 467.2 467.2 467.2 467.2 496.4 496.4 496.4 496.4 496.4 496.4 525.6 525.6 525.6 525.6 525.6 525.6																																							
OCV @ coldest temp (-40C, -40F amb)		572.2 572.2 572.2 572.2 572.2 572.2 572.2 608.0 608.0 608.0 608.0 608.0 608.0 643.8 643.8 643.8 643.8 643.8 643.8																																							
OCV @ coldest temp (-30C, -22F amb)		556.1 556.1 556.1 556.1 556.1 556.1 556.1 590.8 590.8 590.8 590.8 590.8 590.8 625.6 625.6 625.6 625.6 625.6 625.6																																							
OCV @ coldest temp (-20C, -4F amb)		539.9 539.9 539.9 539.9 539.9 539.9 539.9 573.7 573.7 573.7 573.7 573.7 573.7 607.4 607.4 607.4 607.4 607.4 607.4																																							
OCV @ coldest temp (-10C, 14F amb)		523.8 523.8 523.8 523.8 523.8 523.8 523.8 556.5 556.5 556.5 556.5 556.5 556.5 589.2 589.2 589.2 589.2 589.2 589.2																																							
OCV @ coldest temp (0C, 32F amb)		507.6 507.6 507.6 507.6 507.6 507.6 507.6 539.3 539.3 539.3 539.3 539.3 539.3 571.1 571.1 571.1 571.1 571.1 571.1																																							
Power @ MPP (STC)		60800 79040 91200 103360 109440 121600 64600 77520 90440 100130 106590 122740 61560 75240 85500 102600 109440 119700																																							
PTC AC system power rating		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																																							
Suggested Inverter		PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW																																							

Module Manufacturer		ET Solar										ET Solar										ET Solar										ET Solar																			
Module Model		ET-P648175										ET-P648170										ET-P648165										ET-P648160										ET-P648155									
Voltage @ MPT (STC)		23.2 VDC										23 VDC										23 VDC										23 VDC										23 VDC									
Current @ MPT (STC)		7.54 ADC										7.39 ADC										7.17 ADC										7.9 ADC										6.95 ADC									
Current, short circuit		8.1 ADC										8.1 ADC										8.1 ADC										7.9 ADC										7.6 ADC									
OCV @ 25 deg C cells		29.04 VDC										29 VDC										29 VDC										29 VDC										29 VDC									
		Power @ MPT										Power @ MPT										Power @ MPT										Power @ MPT										Power @ MPT									
		175.0 W										170.0 W										165.0 W										160.0 W										155.0 W									
		0.0 W										0.0 W										0.0 W										0.0 W										0.0 W									
		estimated										estimated										estimated										estimated										estimated									
		113.54 deg F										113.54 deg F										113.54 deg F										113.54 deg F										113.54 deg F									
		For Vmpp @ max amp temp and OCV @ coldest temperature, green is OK, red is not OK										For Vmpp @ max amp temp and OCV @ coldest temperature, green is OK, red is not OK										For Vmpp @ max amp temp and OCV @ coldest temperature, green is OK, red is not OK										For Vmpp @ max amp temp and OCV @ coldest temperature, green is OK, red is not OK										For Vmpp @ max amp temp and OCV @ coldest temperature, green is OK, red is not OK									
		orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)									
		purple is OK but indicates inverter will limit to 95 kW AC continuous output										purple is OK but indicates inverter will limit to 95 kW AC continuous output										purple is OK but indicates inverter will limit to 95 kW AC continuous output										purple is OK but indicates inverter will limit to 95 kW AC continuous output										purple is OK but indicates inverter will limit to 95 kW AC continuous output									
		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)									
		(note that NEC 690 prohibits system voltage to exceed 600VDC)										(note that NEC 690 prohibits system voltage to exceed 600VDC)										(note that NEC 690 prohibits system voltage to exceed 600VDC)										(note that NEC 690 prohibits system voltage to exceed 600VDC)										(note that NEC 690 prohibits system voltage to exceed 600VDC)									
cool climates only and 5% low voltage tap recommended		cool climates only and 5% low voltage tap recommended										cool climates only and 5% low voltage tap recommended										cool climates only and 5% low voltage tap recommended										cool climates only and 5% low voltage tap recommended																			
Modules total in array		320										320										320										320										320									
Modules per string		16										16										16										16										16									
Strings in Parallel		20										20										20										20										20									
Voltage @ MPP (STC)		371.2										371.2										371.2										371.2										371.2									
Vmpp @ max amp temp (30C, 86F amb)		322.7										322.7										322.7										322.7										322.7									
Vmpp @ max amp temp (35C, 95F amb)		314.7										314.7										314.7										314.7										314.7									
Vmpp @ max amp temp (40C, 104F amb)		306.7										306.7										306.7										306.7										306.7									
Vmpp @ max amp temp (45C, 113F amb)		298.7										298.7										298.7										298.7										298.7									
Vmpp @ max amp temp (50C, 122F amb)		290.7										290.7										290.7										290.7										290.7									
OCV @ 25 deg C cells		464.6										464.6										464.6										464.6										464.6									
OCV @ coldest temp (-40C, -40F amb)		568.6										568.6										568.6										568.6										568.6									
OCV @ coldest temp (-30C, -22F amb)		552.6										552.6										552.6										552.6										552.6									
OCV @ coldest temp (-20C, -4F amb)		536.6										536.6										536.6										536.6										536.6									
OCV @ coldest temp (-10C, 14F amb)		520.6										520.6										520.6										520.6										520.6									
OCV @ coldest temp (0C, 32F amb)		504.6										504.6										504.6										504.6										504.6									
Power @ MPP (STC)		56000										84000										95200										100800										112000									
PTC AC system power rating		0										0										0										0										0									
Suggested Inverter		PVI 60KW										PVI 60KW										PVI 60KW										PVI 60KW										PVI 60KW									

Module Manufacturer		ET Solar										ET-P636145										ET-P636146										ET-P636147									
Module Model		ET-P636145										ET-P636146										ET-P636147										ET-P636148									
Voltage @ MPT (STC)		17.8 VDC										17.6 VDC										17.7 VDC										17.8 VDC									
Current @ MPT (STC)		8.15 ADC										7.95 ADC										8.15 ADC										8.15 ADC									
Current, short circuit		8.5 ADC										8.41 ADC										8.5 ADC										8.5 ADC									
OCV @ 25 deg C cells		21.96 VDC										21.96 VDC										21.96 VDC										21.96 VDC									
Power @ MPT (STC)		145.0 W										140.0 W										140.0 W										145.0 W									
PTC AC system power rating		0.0 W										0.0 W										0.0 W										0.0 W									
Suggested Inverter		PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW										PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW										PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW										PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW									
Modules total in array	484	572	660	748	792	596	596	690	782	528	624	672	720	768	600	650	700	750	528	624	672	720	768	600	650	700	750														
Modules per string	22	22	22	22	22	22	23	23	23	24	24	24	24	24	25	25	25	25	22	22	22	22	24	24	24	24	25														
Strings in Parallel	22	26	30	34	36	22	26	30	34	22	26	28	30	32	24	26	28	30	22	26	28	30	32	24	26	28	30														
Voltage @ MPP (STC)	391.6	391.6	391.6	391.6	391.6	409.4	409.4	409.4	409.4	427.2	427.2	427.2	427.2	427.2	445.0	445.0	445.0	445.0	391.6	391.6	391.6	391.6	409.4	409.4	409.4	409.4	427.2														
Vmpp @ max amb temp (30C, 86F amb)	340.9	340.9	340.9	340.9	340.9	356.4	356.4	356.4	356.4	371.9	371.9	371.9	371.9	371.9	387.4	387.4	387.4	387.4	340.9	340.9	340.9	340.9	356.4	356.4	356.4	356.4	371.9														
Vmpp @ max amb temp (35C, 95F amb)	332.6	332.6	332.6	332.6	332.6	347.7	347.7	347.7	347.7	362.8	362.8	362.8	362.8	362.8	377.9	377.9	377.9	377.9	332.6	332.6	332.6	332.6	347.7	347.7	347.7	347.7	362.8														
Vmpp @ max amb temp (40C, 104F amb)	324.2	324.2	324.2	324.2	324.2	339.0	339.0	339.0	339.0	353.7	353.7	353.7	353.7	353.7	368.4	368.4	368.4	368.4	324.2	324.2	324.2	324.2	339.0	339.0	339.0	339.0	353.7														
Vmpp @ max amb temp (45C, 113F amb)	315.9	315.9	315.9	315.9	315.9	330.2	330.2	330.2	330.2	344.6	344.6	344.6	344.6	344.6	359.3	359.3	359.3	359.3	315.9	315.9	315.9	315.9	330.2	330.2	330.2	330.2	344.6														
Vmpp @ max amb temp (50C, 122F amb)	307.5	307.5	307.5	307.5	307.5	321.5	321.5	321.5	321.5	335.5	335.5	335.5	335.5	335.5	350.2	350.2	350.2	350.2	307.5	307.5	307.5	307.5	321.5	321.5	321.5	321.5	335.5														
OCV @ 25 deg C cells	483.1	483.1	483.1	483.1	483.1	505.1	505.1	505.1	505.1	527.0	527.0	527.0	527.0	527.0	549.0	549.0	549.0	549.0	483.1	483.1	483.1	483.1	505.1	505.1	505.1	505.1	527.0														
OCV @ coldest temp (-40C, -40F amb)	591.8	591.8	591.8	591.8	591.8	618.7	618.7	618.7	618.7	645.6	645.6	645.6	645.6	645.6	672.5	672.5	672.5	672.5	591.8	591.8	591.8	591.8	618.7	618.7	618.7	618.7	645.6														
OCV @ coldest temp (-30C, -22F amb)	575.1	575.1	575.1	575.1	575.1	601.2	601.2	601.2	601.2	627.4	627.4	627.4	627.4	627.4	653.5	653.5	653.5	653.5	575.1	575.1	575.1	575.1	601.2	601.2	601.2	601.2	627.4														
OCV @ coldest temp (-20C, -4F amb)	558.4	558.4	558.4	558.4	558.4	583.7	583.7	583.7	583.7	609.1	609.1	609.1	609.1	609.1	634.5	634.5	634.5	634.5	558.4	558.4	558.4	558.4	583.7	583.7	583.7	583.7	609.1														
OCV @ coldest temp (-10C, 14F amb)	541.6	541.6	541.6	541.6	541.6	566.3	566.3	566.3	566.3	590.9	590.9	590.9	590.9	590.9	615.5	615.5	615.5	615.5	541.6	541.6	541.6	541.6	566.3	566.3	566.3	566.3	590.9														
OCV @ coldest temp (0C, 32F amb)	524.9	524.9	524.9	524.9	524.9	548.8	548.8	548.8	548.8	572.6	572.6	572.6	572.6	572.6	596.5	596.5	596.5	596.5	524.9	524.9	524.9	524.9	548.8	548.8	548.8	548.8	572.6														
Power @ MPP (STC)	70160	82940	95700	108460	114840	73370	86710	100050	113390	78560	94080	97440	104400	111360	87000	94200	101500	108750	70160	82940	95700	108460	114840	73370	86710	100050	113390														
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														

Module Manufacturer		ET Solar										Power @ MPT										120.0 W										For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Module Model		ET-P636120										PTC Power Rating										0.0 W										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)									
Voltage @ MPP (STC)		17.4 VDC										Temp Coeff of Vmp										0.075 V/degC (Vmp)										purple is OK but indicates inverter will limit to 95 kW AC continuous output									
Current @ MPP (STC)		6.89 ADC										Temp Coeff of Vocv										0.075 V/degC (Vocv)										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)									
Current, short circuit		7.63 ADC										NOCT (nom. cell temp)										45.3 deg C										(note that NEC 690 prohibits system voltage to exceed 600VDC)									
OCV @ 25 deg C cells		21.75 VDC																				113.54 deg F																			
Modules total in array		616	704	792	880	968	644	736	828	920	672	768	864	960	1008	700	800	900	1000	616	704	792	880	968	644	736	828	920	672	768	864	960	1008	700	800	900	1000				
Modules per string		22	22	22	22	22	23	23	23	23	24	24	24	24	24	25	25	25	25	22	22	22	22	22	23	23	23	23	24	24	24	24	25	25	25	25					
Strings in Parallel		28	32	36	40	44	28	32	36	40	28	32	36	40	42	28	32	36	40	28	32	36	40	44	28	32	36	40	28	32	36	40	42	28	32	36	40				
Voltage @ MPP (STC)		382.8	382.8	382.8	382.8	382.8	400.2	400.2	400.2	400.2	417.6	417.6	417.6	417.6	417.6	435.0	435.0	435.0	435.0	382.8	382.8	382.8	382.8	382.8	400.2	400.2	400.2	400.2	417.6	417.6	417.6	417.6	435.0	435.0	435.0	435.0					
Vmp @ max amb temp (30C, 86F amb)		332.8	332.8	332.8	332.8	332.8	347.9	347.9	347.9	347.9	363.1	363.1	363.1	363.1	363.1	378.2	378.2	378.2	378.2	332.8	332.8	332.8	332.8	332.8	347.9	347.9	347.9	347.9	363.1	363.1	363.1	363.1	378.2	378.2	378.2	378.2					
Vmp @ max amb temp (35C, 95F amb)		324.6	324.6	324.6	324.6	324.6	339.3	339.3	339.3	339.3	354.1	354.1	354.1	354.1	354.1	368.8	368.8	368.8	368.8	324.6	324.6	324.6	324.6	324.6	339.3	339.3	339.3	339.3	354.1	354.1	354.1	354.1	368.8	368.8	368.8	368.8					
Vmp @ max amb temp (40C, 104F amb)		315.3	315.3	315.3	315.3	315.3	330.7	330.7	330.7	330.7	345.1	345.1	345.1	345.1	345.1	359.4	359.4	359.4	359.4	315.3	315.3	315.3	315.3	315.3	330.7	330.7	330.7	330.7	345.1	345.1	345.1	345.1	359.4	359.4	359.4	359.4					
Vmp @ max amb temp (45C, 113F amb)		308.1	308.1	308.1	308.1	308.1	322.1	322.1	322.1	322.1	336.1	336.1	336.1	336.1	336.1	350.1	350.1	350.1	350.1	308.1	308.1	308.1	308.1	308.1	322.1	322.1	322.1	322.1	336.1	336.1	336.1	336.1	350.1	350.1	350.1	350.1					
Vmp @ max amb temp (50C, 122F amb)		299.8	299.8	299.8	299.8	299.8	313.4	313.4	313.4	313.4	327.1	327.1	327.1	327.1	327.1	340.7	340.7	340.7	340.7	299.8	299.8	299.8	299.8	299.8	313.4	313.4	313.4	313.4	327.1	327.1	327.1	327.1	340.7	340.7	340.7	340.7					
OCV @ 25 deg C cells		478.5	478.5	478.5	478.5	478.5	500.3	500.3	500.3	500.3	522.0	522.0	522.0	522.0	522.0	543.8	543.8	543.8	543.8	478.5	478.5	478.5	478.5	478.5	500.3	500.3	500.3	500.3	522.0	522.0	522.0	522.0	543.8	543.8	543.8	543.8					
OCV @ coldest temp (-40C, -40F amb)		585.8	585.8	585.8	585.8	585.8	612.4	612.4	612.4	612.4	639.0	639.0	639.0	639.0	639.0	665.6	665.6	665.6	665.6	585.8	585.8	585.8	585.8	585.8	612.4	612.4	612.4	612.4	639.0	639.0	639.0	639.0	665.6	665.6	665.6	665.6					
OCV @ coldest temp (-30C, -22F amb)		569.3	569.3	569.3	569.3	569.3	595.1	595.1	595.1	595.1	621.0	621.0	621.0	621.0	621.0	646.9	646.9	646.9	646.9	569.3	569.3	569.3	569.3	569.3	595.1	595.1	595.1	595.1	621.0	621.0	621.0	621.0	646.9	646.9	646.9	646.9					
OCV @ coldest temp (-20C, -4F amb)		552.8	552.8	552.8	552.8	552.8	577.9	577.9	577.9	577.9	603.0	603.0	603.0	603.0	603.0	628.1	628.1	628.1	628.1	552.8	552.8	552.8	552.8	552.8	577.9	577.9	577.9	577.9	603.0	603.0	603.0	603.0	628.1	628.1	628.1	628.1					
OCV @ coldest temp (-10C, 14F amb)		536.3	536.3	536.3	536.3	536.3	560.6	560.6	560.6	560.6	585.0	585.0	585.0	585.0	585.0	609.4	609.4	609.4	609.4	536.3	536.3	536.3	536.3	536.3	560.6	560.6	560.6	560.6	585.0	585.0	585.0	585.0	609.4	609.4	609.4	609.4					
OCV @ coldest temp (0C, 32F amb)		519.8	519.8	519.8	519.8	519.8	543.4	543.4	543.4	543.4	567.0	567.0	567.0	567.0	567.0	590.6	590.6	590.6	590.6	519.8	519.8	519.8	519.8	519.8	543.4	543.4	543.4	543.4	567.0	567.0	567.0	567.0	590.6	590.6	590.6	590.6					
Power @ MPP (STC)		7390.0	8448.0	9540.0	10500.0	11616.0	7728.0	8832.0	9936.0	11040.0	8064.0	9168.0	10272.0	11376.0	12096.0	5906.0	6960.0	8014.0	9068.0	7390.0	8448.0	9540.0	10500.0	11616.0	7728.0	8832.0	9936.0	11040.0	8064.0	9168.0	10272.0	11376.0	5906.0	6960.0	8014.0	9068.0					
PTC AC system power rating		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Suggested Inverter		PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 82KW	PVI 82KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW						

Module Manufacturer	Evergreen										Power @ MPP										For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK															
Module Model	ES-A195										PTC Power Rating										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)															
Voltage @ MPP (STC)	17.8 VDC										195.0 W										purple is OK but indicates inverter will limit to 95 kW AC continuous output															
Current @ MPP (STC)	10.96 ADC										175.9 W										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)															
Current, short circuit	11.9 ADC										0.077 V/degC (Vmpp)										(note that NEC 690 prohibits system voltage to exceed 600VDC)															
OCV @ 25 deg C cells	22.3 VDC										0.071 V/degC (Vocv)																									
										NOCT (nom. cell temp)										112.64 deg F																
Modules total in array	352	440	484	528	572	322	414	460	552	336	432	480	528	576	350	450	500	550	352	440	484	528	572	322	414	460	552	336	432	480	528	576	350	450	500	550
Modules per string	22	22	22	22	22	22	23	23	23	24	24	24	24	24	25	25	25	25	22	22	22	22	22	22	23	23	23	24	24	24	24	24	25	25	25	25
Strings in Parallel	16	20	22	24	26	14	18	20	24	14	18	20	22	24	14	18	20	22	16	20	22	24	26	14	18	20	24	14	18	20	22	24	14	18	20	22
Voltage @ MPP (STC)	391.6	391.6	391.6	391.6	391.6	391.6	409.4	409.4	409.4	427.2	427.2	427.2	427.2	427.2	445.0	445.0	445.0	445.0	391.6	391.6	391.6	391.6	391.6	391.6	409.4	409.4	409.4	427.2	427.2	427.2	427.2	445.0	445.0	445.0	445.0	
Vmpp @ max amb temp (30C, 86F amb)	341.1	341.1	341.1	341.1	341.1	356.6	356.6	356.6	356.6	372.1	372.1	372.1	372.1	372.1	387.6	387.6	387.6	387.6	341.1	341.1	341.1	341.1	341.1	356.6	356.6	356.6	356.6	372.1	372.1	372.1	372.1	387.6	387.6	387.6	387.6	
Vmpp @ max amb temp (35C, 95F amb)	332.2	332.2	332.2	332.2	332.2	348.8	348.8	348.8	348.8	362.9	362.9	362.9	362.9	362.9	378.0	378.0	378.0	378.0	332.2	332.2	332.2	332.2	332.2	348.8	348.8	348.8	348.8	362.9	362.9	362.9	362.9	378.0	378.0	378.0	378.0	
Vmpp @ max amb temp (40C, 104F amb)	324.2	324.2	324.2	324.2	324.2	338.9	338.9	338.9	338.9	353.6	353.6	353.6	353.6	353.6	368.4	368.4	368.4	368.4	324.2	324.2	324.2	324.2	324.2	338.9	338.9	338.9	338.9	353.6	353.6	353.6	353.6	368.4	368.4	368.4	368.4	
Vmpp @ max amb temp (45C, 113F amb)	315.7	315.7	315.7	315.7	315.7	330.1	330.1	330.1	330.1	344.4	344.4	344.4	344.4	344.4	358.8	358.8	358.8	358.8	315.7	315.7	315.7	315.7	315.7	330.1	330.1	330.1	330.1	344.4	344.4	344.4	344.4	358.8	358.8	358.8	358.8	
Vmpp @ max amb temp (50C, 122F amb)	307.2	307.2	307.2	307.2	307.2	321.2	321.2	321.2	321.2	335.2	335.2	335.2	335.2	335.2	349.1	349.1	349.1	349.1	307.2	307.2	307.2	307.2	307.2	321.2	321.2	321.2	321.2	335.2	335.2	335.2	335.2	349.1	349.1	349.1	349.1	
OCV @ 25 deg C cells	490.6	490.6	490.6	490.6	490.6	512.9	512.9	512.9	512.9	535.2	535.2	535.2	535.2	535.2	557.5	557.5	557.5	557.5	490.6	490.6	490.6	490.6	490.6	512.9	512.9	512.9	512.9	535.2	535.2	535.2	535.2	557.5	557.5	557.5	557.5	
OCV @ coldest temp (-40C, -40F amb)	592.1	592.1	592.1	592.1	592.1	619.0	619.0	619.0	619.0	646.0	646.0	646.0	646.0	646.0	672.9	672.9	672.9	672.9	592.1	592.1	592.1	592.1	592.1	619.0	619.0	619.0	619.0	646.0	646.0	646.0	646.0	672.9	672.9	672.9	672.9	
OCV @ coldest temp (-30C, -22F amb)	576.5	576.5	576.5	576.5	576.5	603.7	603.7	603.7	603.7	630.7	630.7	630.7	630.7	630.7	657.6	657.6	657.6	657.6	576.5	576.5	576.5	576.5	576.5	603.7	603.7	603.7	603.7	630.7	630.7	630.7	630.7	657.6	657.6	657.6	657.6	
OCV @ coldest temp (-20C, -4F amb)	560.9	560.9	560.9	560.9	560.9	586.4	586.4	586.4	586.4	611.9	611.9	611.9	611.9	611.9	637.4	637.4	637.4	637.4	560.9	560.9	560.9	560.9	560.9	586.4	586.4	586.4	586.4	611.9	611.9	611.9	611.9	637.4	637.4	637.4	637.4	
OCV @ coldest temp (-10C, 14F amb)	545.3	545.3	545.3	545.3	545.3	570.1	570.1	570.1	570.1	594.8	594.8	594.8	594.8	594.8	619.6	619.6	619.6	619.6	545.3	545.3	545.3	545.3	545.3	570.1	570.1	570.1	570.1	594.8	594.8	594.8	594.8	619.6	619.6	619.6	619.6	
OCV @ coldest temp (0C, 32F amb)	529.7	529.7	529.7	529.7	529.7	553.7	553.7	553.7	553.7	577.8	577.8	577.8	577.8	577.8	602.4	602.4	602.4	602.4	529.7	529.7	529.7	529.7	529.7	553.7	553.7	553.7	553.7	577.8	577.8	577.8	577.8	602.4	602.4	602.4	602.4	
Power @ MPP (STC)	686.6	852.0	943.80	1029.60	1115.40	627.90	807.30	897.60	987.90	1074.00	1252.20	1342.40	1428.60	1514.80	1600.90	1687.10	1773.20	1859.40	686.6	852.0	943.80	1029.60	1115.40	627.90	807.30	897.60	987.90	1074.00	1252.20	1342.40	1428.60	1514.80	1600.90	1687.10	1773.20	1859.40
PTC AC system power rating	58131	73913	81304	88696	96087	54091	69547	77273	84927	92643	100359	108075	115791	123507	131223	138939	146655	154371	58131	73913	81304	88696	96087	54091	69547	77273	84927	92643	100359	108075	115791	123507	131223	138939	146655	154371
Suggested Inverter	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW

Module Manufacturer	Evergreen										Power @ MPP	170.0 W	For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK										
Module Model	ES-170-RL										PTC Power Rating	150.6 W	orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)										
Voltage @ MPP (STC)	25.3 VDC										Temp Coeff of Vmp	0.119 V/degC	(Vmpp)	purple is OK but indicates inverter will limit to 95 kW AC continuous output									
Current @ MPP (STC)	6.72 ADC										Temp Coeff of Voc	0.111 V/degC	(Voc)	pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)									
Current, short circuit	7.55 ADC										NOCT (nom. cell temp)	45.9 deg C	114.62 deg F	(note that NEC 690 prohibits system voltage to exceed 600VDC)									
OCV @ 25 deg C cells	32.4 VDC										cool climates only and 5% low voltage tap recommended												
Modules total in array	300	360	450	525	570	660	288	384	400	480	528	656	306	374	442	510	578	663					
Modules per string	15	15	15	15	15	15	16	16	16	16	16	16	17	17	17	17	17	17					
Strings in Parallel	20	24	30	35	38	44	18	24	25	30	33	41	18	22	26	30	34	39					
Voltage @ MPP (STC)	379.5	379.5	379.5	379.5	379.5	379.5	404.8	404.8	404.8	404.8	404.8	404.8	430.1	430.1	430.1	430.1	430.1	430.1					
Vmp @ max amb temp (30C, 86F amb)	324.3	324.3	324.3	324.3	324.3	324.3	346.0	346.0	346.0	346.0	346.0	346.0	367.6	367.6	367.6	367.6	367.6	367.6					
Vmp @ max amb temp (35C, 95F amb)	315.4	315.4	315.4	315.4	315.4	315.4	336.4	336.4	336.4	336.4	336.4	336.4	357.5	357.5	357.5	357.5	357.5	357.5					
Vmp @ max amb temp (40C, 104F amb)	306.5	306.5	306.5	306.5	306.5	306.5	329.9	329.9	329.9	329.9	329.9	329.9	347.4	347.4	347.4	347.4	347.4	347.4					
Vmp @ max amb temp (45C, 113F amb)	297.6	297.6	297.6	297.6	297.6	297.6	317.4	317.4	317.4	317.4	317.4	317.4	337.2	337.2	337.2	337.2	337.2	337.2					
Vmp @ max amb temp (50C, 122F amb)	288.6	288.6	288.6	288.6	288.6	288.6	307.9	307.9	307.9	307.9	307.9	307.9	327.1	327.1	327.1	327.1	327.1	327.1					
OCV @ 25 deg C cells	486.0	486.0	486.0	486.0	486.0	486.0	518.4	518.4	518.4	518.4	518.4	518.4	550.8	550.8	550.8	550.8	550.8	550.8					
OCV @ coldest temp (-40C, -40F amb)	593.3	593.3	593.3	593.3	593.3	593.3	632.8	632.8	632.8	632.8	632.8	632.8	672.4	672.4	672.4	672.4	672.4	672.4					
OCV @ coldest temp (-30C, -22F amb)	576.8	576.8	576.8	576.8	576.8	576.8	615.2	615.2	615.2	615.2	615.2	615.2	653.7	653.7	653.7	653.7	653.7	653.7					
OCV @ coldest temp (-20C, -4F amb)	560.3	560.3	560.3	560.3	560.3	560.3	597.6	597.6	597.6	597.6	597.6	597.6	635.0	635.0	635.0	635.0	635.0	635.0					
OCV @ coldest temp (-10C, 14F amb)	543.8	543.8	543.8	543.8	543.8	543.8	580.0	580.0	580.0	580.0	580.0	580.0	616.3	616.3	616.3	616.3	616.3	616.3					
OCV @ coldest temp (0C, 32F amb)	527.3	527.3	527.3	527.3	527.3	527.3	562.4	562.4	562.4	562.4	562.4	562.4	597.6	597.6	597.6	597.6	597.6	597.6					
Power @ MPP (STC)	5100.0	6120.0	7650.0	8925.0	9690.0	11220.0	48960.0	62880.0	68000.0	81600.0	89760.0	111520.0	52200.0	63580.0	75140.0	82760.0	97070.0	112710.0					
PTC AC system power rating	43147	51776	64720	75507	81979	94523	41421	52528	57529	69035	75839	94348	44010	53790	63570	73350	83130	95855					
Suggested Inverter	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW			

Module Manufacturer		GE		Power @ MPP		205.0 W		* - PTC Power Rating not available										
Module Model		GEPV-205-M		PTC Power Rating		0.0 W		For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK										
Voltage @ MPP (STC)		26.4 VDC		PTC Power Rating		173.2 W		orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)										
Current @ MPP (STC)		7.8 ADC		Temp Coeff of Vmpp		0.12 V/degC (V/mpp)		purple is OK but indicates inverter will limit to 95 kW AC continuous output										
Current, short circuit		8.2 ADC		Temp Coeff of Vocv		0.12 V/degC (Vocv)		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)										
OCV @ 25 deg C cells		33 VDC		NOCT (nom. cell temp)		45 deg C		(note that NEC 690 prohibits system voltage to exceed 600VDC)										
Modules total in array																		
Modules per string	300	330	360	375	420	465	480	525	555	288	320	352	368	416	464	480	512	560
Strings in Parallel	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	16
Voltage @ MPP (STC)	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	422.4	422.4	422.4	422.4	422.4	422.4	422.4	422.4	422.4
Vmpp @ max amb temp (30C, 86F amb)	342.0	342.0	342.0	342.0	342.0	342.0	342.0	342.0	342.0	364.8	364.8	364.8	364.8	364.8	364.8	364.8	364.8	364.8
Vmpp @ max amb temp (35C, 95F amb)	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	355.2	355.2	355.2	355.2	355.2	355.2	355.2	355.2	355.2
Vmpp @ max amb temp (40C, 104F amb)	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	345.6	345.6	345.6	345.6	345.6	345.6	345.6	345.6	345.6
Vmpp @ max amb temp (45C, 113F amb)	315.0	315.0	315.0	315.0	315.0	315.0	315.0	315.0	315.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0
Vmpp @ max amb temp (50C, 122F amb)	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4
OCV @ 25 deg C cells	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
OCV @ coldest temp (-40C, -40F amb)	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	512.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
OCV @ coldest temp (-30C, -22F amb)	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6
OCV @ coldest temp (-20C, -4F amb)	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4
OCV @ coldest temp (-10C, 14F amb)	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	558.0	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2
OCV @ coldest temp (0C, 32F amb)	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	540.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
Power @ MPP (STC)	61500	67650	73800	76875	84100	90425	98400	107625	113775	59400	65600	71800	75440	85280	95120	98400	104960	114800
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Suggested Inverter	PVI 60KW	PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 65KW	PVI 65KW	PVI 65KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 65KW	PVI 65KW	PVI 65KW

Module Manufacturer		GE										Power @ MPP										170.0 W										For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Module Model		GEPVC-170-MS										PTC Power Rating										146.9 W										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC).									
Voltage @ MPP (STC)		36.5 VDC										PTC Power Rating										146.9 W										purple is OK but indicates inverter will limit to 95 kW AC continuous output									
Current @ MPP (STC)		4.65 ADC										Temp Coeff of Vmp										0.15 V/degC (Vmpp)										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)									
Current, short circuit		5.1 ADC										Temp Coeff of Vocv										0.15 V/degC (Vocv)										(note that NEC 690 prohibits system voltage to exceed 600VDC)									
OCV @ 25 deg C cells		43.9 VDC										NOCT (nom. cell temp)										45 deg C										113 deg F									
Modules total in array		330	352	396	440	495	528	572	616	671	300	360	384	432	480	528	576	624	672	330	352	396	440	495	528	572	616	671	300	360	384	432	480	528	576	624	672				
Modules per string		11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12				
Strings in Parallel		30	32	36	40	45	48	52	56	61	25	30	32	36	40	44	48	52	56	30	32	36	40	45	48	52	56	61	25	30	32	36	40	44	48	52	56				
Voltage @ MPP (STC)		401.5	401.5	401.5	401.5	401.5	401.5	401.5	401.5	401.5	438.0	438.0	438.0	438.0	438.0	438.0	438.0	438.0	401.5	401.5	401.5	401.5	401.5	401.5	401.5	401.5	401.5	438.0	438.0	438.0	438.0	438.0	438.0	438.0	438.0	438.0					
Vmp @ max amb temp (30C, 86F amb)		352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0	352.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0					
Vmp @ max amb temp (35C, 95F amb)		343.2	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	343.2	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0					
Vmp @ max amb temp (40C, 104F amb)		335.5	335.5	335.5	335.5	335.5	335.5	335.5	335.5	335.5	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0	335.5	335.5	335.5	335.5	335.5	335.5	335.5	335.5	335.5	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0					
Vmp @ max amb temp (45C, 113F amb)		327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	357.0	357.0	357.0	357.0	357.0	357.0	357.0	357.0	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	357.0	357.0	357.0	357.0	357.0	357.0	357.0	357.0	357.0					
Vmp @ max amb temp (50C, 122F amb)		319.0	319.0	319.0	319.0	319.0	319.0	319.0	319.0	319.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	319.0	319.0	319.0	319.0	319.0	319.0	319.0	319.0	319.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0	348.0					
OCV @ 25 deg C cells		482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	526.8	526.8	526.8	526.8	526.8	526.8	526.8	526.8	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	526.8	526.8	526.8	526.8	526.8	526.8	526.8	526.8	526.8					
OCV @ coldest temp (-40C, -40F amb)		590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8					
OCV @ coldest temp (-30C, -22F amb)		573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8					
OCV @ coldest temp (-20C, -4F amb)		557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	607.8	607.8	607.8	607.8	607.8	607.8	607.8	607.8	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	607.8	607.8	607.8	607.8	607.8	607.8	607.8	607.8	607.8					
OCV @ coldest temp (-10C, 14F amb)		540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	589.8	589.8	589.8	589.8	589.8	589.8	589.8	589.8	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	589.8	589.8	589.8	589.8	589.8	589.8	589.8	589.8	589.8					
OCV @ coldest temp (0C, 32F amb)		524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	524.2	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8					
Power @ MPP (STC)		581.0	584.0	632.0	748.0	845.0	897.0	972.0	1047.0	1147.0	510.0	612.0	636.0	734.0	816.0	876.0	932.0	1006.0	581.0	584.0	632.0	748.0	845.0	897.0	972.0	1047.0	1147.0	510.0	612.0	636.0	734.0	816.0	876.0	932.0	1006.0	1147.0					
PTC AC system power rating		4294	4932	5555	6177	6943	7473	8046	8648	9134	4207	5054	5387	6065	6739	7407	8087	8751	9425	4294	4932	5555	6177	6943	7473	8046	8648	9134	4207	5054	5387	6065	6739	7407	8087	8751	9425				
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW					

Module Manufacturer		Isofon		Power @ MPP		165.0 W		For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK												
Module Model		I-165		PTC Power Rating		148.1 W		orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)												
Voltage @ MPP (STC)		17.4 VDC		Temp Coeff of Vmpp		0.083 V/degC (V/mpp)		purple is OK but indicates inverter will limit to 95 kW AC continuous output												
Current @ MPP (STC)		9.48 ADC		Temp Coeff of Vocv		0.078 V/degC (Vocv)		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)												
Current, short circuit		10.14 ADC		NOCT (nom. cell temp)		47 deg C		(note that NEC 690 prohibits system voltage to exceed 600VDC)												
OCV @ 25 deg C cells		21.6 VDC				116.6 deg F														
Modules total in array		352	396	484	550	594	660	368	414	506	575	598	667	384	432	528	576	600	672	
Modules per string		22	22	22	22	22	22	23	23	23	23	23	23	24	24	24	24	24	24	24
Strings in Parallel		16	18	22	25	27	30	16	18	22	25	26	29	16	18	22	24	25	28	
Voltage @ MPP (STC)		382.8	382.8	382.8	382.8	382.8	382.8	400.2	400.2	400.2	400.2	400.2	400.2	417.6	417.6	417.6	417.6	417.6	417.6	
Vmpp @ max amb temp (30C, 86F amb)		338.4	338.4	338.4	338.4	338.4	338.4	353.8	353.8	353.8	353.8	353.8	353.8	369.2	369.2	369.2	369.2	369.2	369.2	
Vmpp @ max amb temp (35C, 95F amb)		331.5	331.5	331.5	331.5	331.5	331.5	346.6	346.6	346.6	346.6	346.6	346.6	361.7	361.7	361.7	361.7	361.7	361.7	
Vmpp @ max amb temp (40C, 104F amb)		324.6	324.6	324.6	324.6	324.6	324.6	339.3	339.3	339.3	339.3	339.3	339.3	354.1	354.1	354.1	354.1	354.1	354.1	
Vmpp @ max amb temp (45C, 113F amb)		317.7	317.7	317.7	317.7	317.7	317.7	332.1	332.1	332.1	332.1	332.1	332.1	346.5	346.5	346.5	346.5	346.5	346.5	
Vmpp @ max amb temp (50C, 122F amb)		310.7	310.7	310.7	310.7	310.7	310.7	324.9	324.9	324.9	324.9	324.9	324.9	339.0	339.0	339.0	339.0	339.0	339.0	
OCV @ 25 deg C cells		475.2	475.2	475.2	475.2	475.2	475.2	496.8	496.8	496.8	496.8	496.8	496.8	518.4	518.4	518.4	518.4	518.4	518.4	
OCV @ coldest temp (-40C, -40F amb)		586.7	586.7	586.7	586.7	586.7	586.7	613.4	613.4	613.4	613.4	613.4	613.4	640.1	640.1	640.1	640.1	640.1	640.1	
OCV @ coldest temp (-30C, -22F amb)		569.6	569.6	569.6	569.6	569.6	569.6	595.5	595.5	595.5	595.5	595.5	595.5	621.4	621.4	621.4	621.4	621.4	621.4	
OCV @ coldest temp (-20C, -4F amb)		552.4	552.4	552.4	552.4	552.4	552.4	577.5	577.5	577.5	577.5	577.5	577.5	602.6	602.6	602.6	602.6	602.6	602.6	
OCV @ coldest temp (-10C, 14F amb)		535.3	535.3	535.3	535.3	535.3	535.3	559.6	559.6	559.6	559.6	559.6	559.6	583.9	583.9	583.9	583.9	583.9	583.9	
OCV @ coldest temp (0C, 32F amb)		518.1	518.1	518.1	518.1	518.1	518.1	541.7	541.7	541.7	541.7	541.7	541.7	565.2	565.2	565.2	565.2	565.2	565.2	
Power @ MPP (STC)		5880	6320	73660	90750	98100	108900	60720	62920	63490	64875	69870	110055	63360	71260	87120	95540	89000	110880	
PTC AC system power rating		49379	56008	68455	77790	84013	93347	52048	58554	71566	81325	84578	94337	54311	61100	74678	81467	84681	95405	
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	

Module Manufacturer		Isofon		Power @ MPP		150.0 W		For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK											
Module Model		I-150		PTC Power Rating		134.3 W		orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)											
Voltage @ MPP (STC)		34.6 VDC		Temp Coeff of Vmpp		0.125 V/degC (V/mpp)		purple is OK but indicates inverter will limit to 95 kW AC continuous output											
Current @ MPP (STC)		4.35 ADC		Temp Coeff of Vocv		0.156 V/degC (Vocv)		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)											
Current, short circuit		4.45 ADC		NOCT (nom. cell temp)		47 deg C		(note that NEC 690 prohibits system voltage to exceed 600VDC)											
OCV @ 25 deg C cells		43.2 VDC				116.6 deg F													
Modules total in array		385	440	462	528	550	594	660	704	737	336	384	432	504	540	600	648	672	744
Modules per string		11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12
Strings in Parallel		35	40	42	48	50	54	60	64	67	28	32	36	42	45	50	54	56	62
Voltage @ MPP (STC)		380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2
Vmpp @ max amb temp (30C, 86F amb)		356.8	356.8	356.8	356.8	356.8	356.8	368.6	368.6	368.6	367.2	367.2	367.2	367.2	367.2	367.2	367.2	367.2	367.2
Vmpp @ max amb temp (35C, 95F amb)		329.7	329.7	329.7	329.7	329.7	329.7	329.7	329.7	329.7	329.7	329.7	329.7	359.7	359.7	359.7	359.7	359.7	359.7
Vmpp @ max amb temp (40C, 104F amb)		322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	352.2	352.2	352.2	352.2	352.2	352.2
Vmpp @ max amb temp (45C, 113F amb)		316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	344.7	344.7	344.7	344.7	344.7	344.7
Vmpp @ max amb temp (50C, 122F amb)		309.1	309.1	309.1	309.1	309.1	309.1	309.1	309.1	309.1	309.1	309.1	309.1	337.2	337.2	337.2	337.2	337.2	337.2
OCV @ 25 deg C cells		475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	518.4	518.4	518.4	518.4	518.4	518.4
OCV @ coldest temp (-40C, -40F amb)		586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	613.4	613.4	613.4	640.1	640.1	640.1	640.1	640.1	640.1
OCV @ coldest temp (-30C, -22F amb)		569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	569.6	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4	621.4
OCV @ coldest temp (-20C, -4F amb)		552.4	552.4	552.4	552.4	552.4	552.4	552.4	552.4	552.4	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6
OCV @ coldest temp (-10C, 14F amb)		535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	583.9	583.9	583.9	583.9	583.9	583.9	583.9	583.9	583.9
OCV @ coldest temp (0C, 32F amb)		518.1	518.1	518.1	518.1	518.1	518.1	518.1	518.1	518.1	541.7	541.7	541.7	541.7	541.7	541.7	541.7	541.7	541.7
Power @ MPP (STC)		5750	6600	69300	79200	82500	89100	99000	105600	110550	50400	64800	75600	81000	90000	97200	100800	111600	
PTC AC system power rating		49379	56433	59255	67719	70541	76184	84649	90293	94525	43094	49250	55407	64641	69259	76954	83110	86188	95423
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW

Module Manufacturer		Mitsubishi		Power @ MPP		190.0 W																																	
Module Model		PV-UD190MF5 (UD5)		PTC Power Rating		169.3 W																																	
Voltage @ MPP (STC)		24.7 VDC		PTC Power Rating		164.7 W																																	
Current @ MPP (STC)		7.71 ADC		Temp Coeff of Vmp		0.084 V/degC		(V/mpp)																															
Current, short circuit		8.23 ADC		Temp Coeff of Voc		0.106 V/degC		(Voc)																															
OCV @ 25 deg C cells		30.8 VDC		NOCT (nom. cell temp)		47.5 deg C		117.5 deg F																															
Modules total in array	256	320	352	400	448	480	512	560	592	272	306	357	408	442	493	527	561	595																					
Modules per string	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17																					
Strings in Parallel	16	20	22	25	28	30	32	35	37	16	18	21	24	26	29	31	33	35																					
Voltage @ MPP (STC)	395.2	395.2	395.2	395.2	395.2	395.2	395.2	395.2	395.2	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9																					
Vmpp @ max amb temp (30C, 86F amb)	351.5	351.5	351.5	351.5	351.5	351.5	351.5	351.5	351.5	373.5	373.5	373.5	373.5	373.5	373.5	373.5	373.5	373.5																					
Vmpp @ max amb temp (35C, 95F amb)	344.8	344.8	344.8	344.8	344.8	344.8	344.8	344.8	344.8	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4																					
Vmpp @ max amb temp (40C, 104F amb)	338.1	338.1	338.1	338.1	338.1	338.1	338.1	338.1	338.1	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2																					
Vmpp @ max amb temp (45C, 113F amb)	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	352.1	352.1	352.1	352.1	352.1	352.1	352.1	352.1	352.1																					
Vmpp @ max amb temp (50C, 122F amb)	324.6	324.6	324.6	324.6	324.6	324.6	324.6	324.6	324.6	344.9	344.9	344.9	344.9	344.9	344.9	344.9	344.9	344.9																					
OCV @ 25 deg C cells	492.8	492.8	492.8	492.8	492.8	492.8	492.8	492.8	492.8	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6	523.6																					
OCV @ coldest temp (-40C, -40F amb)	586.1	586.1	586.1	586.1	586.1	586.1	586.1	586.1	586.1	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7																					
OCV @ coldest temp (-30C, -22F amb)	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7																					
OCV @ coldest temp (-20C, -4F amb)	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	552.2	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7	586.7																					
OCV @ coldest temp (-10C, 14F amb)	535.2	535.2	535.2	535.2	535.2	535.2	535.2	535.2	535.2	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7																					
OCV @ coldest temp (0C, 32F amb)	486.4	486.4	486.4	486.4	486.4	486.4	486.4	486.4	486.4	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2	520.2																					
Power @ MPP (STC)	5390	5178	5691	6473	7243	7767	8271	9054	9571	4397	4945	5720	6596	7174	7909	8506	9073	9620																					
PTC AC system power rating	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW																					
Suggested Inverter	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW																					

For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 330VDC),
purple is OK but indicates inverter will limit to 95 kW AC continuous output
pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)
(note that NEC 690 prohibits system voltage to exceed 600VDC)

For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 330VDC),
purple is OK but indicates inverter will limit to 95 kW AC continuous output
pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)
(note that NEC 690 prohibits system voltage to exceed 600VDC)

For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 330VDC),
purple is OK but indicates inverter will limit to 95 kW AC continuous output
pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)
(note that NEC 690 prohibits system voltage to exceed 600VDC)

Module Manufacturer		Mitsubishi										Power @ MPP										For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Module Model		PV-MF175 UD4										175.0 W										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)									
Voltage @ MPP (STC)		23.9 VDC										154.5 W										purple is OK but indicates inverter will limit to 95 kW AC continuous output									
Current @ MPP (STC)		7.32 ADC										0.083 V/degC (V/mpp)										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)									
Current, short circuit		7.93 ADC										0.104 V/degC (Vocv)										(note that NEC 690 prohibits system voltage to exceed 600VDC)									
OCV @ 25 deg C cells		30.2 VDC										NOCT (nom. cell temp)										46.6 deg C									
Modules total in array		320	400	448	528	592	640	306	391	476	544	578	646	324	378	432	504	540	648												
Modules per string		16	16	16	16	16	16	17	17	17	17	17	17	18	18	18	18	18	18												
Strings in Parallel		20	25	28	33	37	40	18	23	28	32	34	38	18	21	24	28	30	36												
Voltage @ MPP (STC)		382.4	382.4	382.4	382.4	382.4	382.4	406.3	406.3	406.3	406.3	406.3	406.3	430.2	430.2	430.2	430.2	430.2													
Vmpp @ max amb temp (30C, 86F amb)		340.4	340.4	340.4	340.4	340.4	340.4	361.7	361.7	361.7	361.7	361.7	361.7	383.0	383.0	383.0	383.0	383.0													
Vmpp @ max amb temp (35C, 95F amb)		333.8	333.8	333.8	333.8	333.8	333.8	354.7	354.7	354.7	354.7	354.7	354.7	375.5	375.5	375.5	375.5	375.5													
Vmpp @ max amb temp (40C, 104F amb)		327.2	327.2	327.2	327.2	327.2	327.2	347.6	347.6	347.6	347.6	347.6	347.6	368.0	368.0	368.0	368.0	368.0													
Vmpp @ max amb temp (45C, 113F amb)		320.5	320.5	320.5	320.5	320.5	320.5	340.5	340.5	340.5	340.5	340.5	340.5	360.6	360.6	360.6	360.6	360.6													
Vmpp @ max amb temp (50C, 122F amb)		313.9	313.9	313.9	313.9	313.9	313.9	333.5	333.5	333.5	333.5	333.5	333.5	353.1	353.1	353.1	353.1	353.1													
OCV @ 25 deg C cells		483.2	483.2	483.2	483.2	483.2	483.2	513.4	513.4	513.4	513.4	513.4	513.4	543.6	543.6	543.6	543.6	543.6													
OCV @ coldest temp (-40C, -40F amb)		591.4	591.4	591.4	591.4	591.4	591.4	628.3	628.3	628.3	628.3	628.3	628.3	665.3	665.3	665.3	665.3	665.3													
OCV @ coldest temp (-30C, -22F amb)		574.7	574.7	574.7	574.7	574.7	574.7	610.6	610.6	610.6	610.6	610.6	610.6	646.6	646.6	646.6	646.6	646.6													
OCV @ coldest temp (-20C, -4F amb)		558.1	558.1	558.1	558.1	558.1	558.1	593.0	593.0	593.0	593.0	593.0	593.0	627.8	627.8	627.8	627.8	627.8													
OCV @ coldest temp (-10C, 14F amb)		541.4	541.4	541.4	541.4	541.4	541.4	575.3	575.3	575.3	575.3	575.3	575.3	609.1	609.1	609.1	609.1	609.1													
OCV @ coldest temp (0C, 32F amb)		524.8	524.8	524.8	524.8	524.8	524.8	557.6	557.6	557.6	557.6	557.6	557.6	590.4	590.4	590.4	590.4	590.4													
Power @ MPP (STC)		56000	72400	82400	92400	103600	112000	53550	62000	83300	95200	101150	113500	56700	75600	86200	94500	113400													
PTC AC system power rating		4245	59019	66101	77905	87348	94430	45150	57691	70233	80266	85282	95316	47605	57743	63741	74364	95611													
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW													

Module Manufacturer		REC Solar		Power @ MPT (STC)		235AE		235.0 W		For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK								
Module Model		235AE		PTC Power Rating		235.0 W		235.0 W		orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)								
Voltage @ MPT (STC)		29.5 VDC		Temp Coeff of Vmp		0.125 V/degC		0.125 V/degC		purple is OK but indicates inverter will limit to 95 kW AC continuous output								
Current @ MPT (STC)		8.5 ADC		Temp Coeff of Voc		0.125 V/degC		0.125 V/degC		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)								
Current, short circuit		36.9 ADC		NOCT (nom. cell temp)		47.5 deg C		47.5 deg C		(note that NEC 690 prohibits system voltage to exceed 600VDC)								
OCV @ 25 deg C cells		36.9 VDC						117.5 deg F										
Modules total in array	247	273	299	351	377	403	429	455	481	238	266	294	350	378	406	434	462	490
Modules per string	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14
Strings in Parallel	19	21	23	27	29	31	33	35	37	17	19	21	25	27	29	31	33	35
Voltage @ MPP (STC)	383.5	383.5	383.5	383.5	383.5	383.5	383.5	383.5	383.5	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0	413.0
Vmp @ max amb temp (30C, 86F amb)	330.5	330.5	330.5	330.5	330.5	330.5	330.5	330.5	330.5	355.9	355.9	355.9	355.9	355.9	355.9	355.9	355.9	355.9
Vmp @ max amb temp (35C, 95F amb)	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3	322.3	347.1	347.1	347.1	347.1	347.1	347.1	347.1	347.1	347.1
Vmp @ max amb temp (40C, 104F amb)	314.2	314.2	314.2	314.2	314.2	314.2	314.2	314.2	314.2	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4
Vmp @ max amb temp (45C, 113F amb)	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6	329.6
Vmp @ max amb temp (50C, 122F amb)	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	320.8	320.8	320.8	320.8	320.8	320.8	320.8	320.8	320.8
OCV @ 25 deg C cells	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6
OCV @ coldest temp (-40C, -40F amb)	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8
OCV @ coldest temp (-30C, -22F amb)	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	613.2	613.2	613.2	613.2	613.2	613.2	613.2	613.2	613.2
OCV @ coldest temp (-20C, -4F amb)	553.1	553.1	553.1	553.1	553.1	553.1	553.1	553.1	553.1	595.6	595.6	595.6	595.6	595.6	595.6	595.6	595.6	595.6
OCV @ coldest temp (-10C, 14F amb)	536.8	536.8	536.8	536.8	536.8	536.8	536.8	536.8	536.8	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1
OCV @ coldest temp (0C, 32F amb)	520.5	520.5	520.5	520.5	520.5	520.5	520.5	520.5	520.5	560.5	560.5	560.5	560.5	560.5	560.5	560.5	560.5	560.5
Power @ MPP (STC)	5804.5	6415.5	7026.5	8485	8956	9470.5	10081.5	10692.5	11303.5	5539.0	6251.0	6963.0	8220.0	8883.0	9541.0	10199.0	10857.0	11515.0
PTC AC system power rating		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Suggested Inverter	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW

Module Manufacturer	REC Solar										Power @ MPP (STC)										215.0 W										For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Module Model	SCM 215										PTC Power Rating										191.3 W										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)									
Voltage @ MPP (STC)	28.3 VDC										Temp Coeff of Vmp										0.123 V/degC										(Vmpp)									
Current @ MPP (STC)	7.6 ADC										Temp Coeff of Voc										0.123 V/degC										(Voc)									
Current, short circuit	8.1 ADC										NOCT (nom. cell temp)										43 deg C										109.4 deg F									
OCV @ 25 deg C cells	36.3 VDC																																							
Modules total in array	252	280	322	336	392	448	462	490	518	270	300	330	345	390	435	450	485	525	252	280	322	336	392	448	462	490	518	270	300	330	345	390	435	450	485	525				
Modules per string	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15				
Strings in Parallel	18	20	23	24	28	32	33	35	37	18	20	22	23	26	29	30	33	35	18	20	23	24	28	32	33	35	37	18	20	22	23	26	29	30	33	35				
Voltage @ MPP (STC)	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	424.5	424.5	424.5	424.5	424.5	424.5	424.5	424.5	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	424.5	424.5	424.5	424.5	424.5	424.5	424.5	424.5	424.5					
Vmpp @ max amb temp (30C, 86F amb)	347.8	347.8	347.8	347.8	347.8	347.8	347.8	347.8	347.8	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	347.8	347.8	347.8	347.8	347.8	347.8	347.8	347.8	347.8	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7					
Vmpp @ max amb temp (35C, 95F amb)	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2	363.4	363.4	363.4	363.4	363.4	363.4	363.4	363.4	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2	339.2	363.4	363.4	363.4	363.4	363.4	363.4	363.4	363.4	363.4					
Vmpp @ max amb temp (40C, 104F amb)	330.5	330.5	330.5	330.5	330.5	330.5	330.5	330.5	330.5	354.2	354.2	354.2	354.2	354.2	354.2	354.2	354.2	330.5	330.5	330.5	330.5	330.5	330.5	330.5	330.5	330.5	354.2	354.2	354.2	354.2	354.2	354.2	354.2	354.2	354.2					
Vmpp @ max amb temp (45C, 113F amb)	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9	344.9	344.9	344.9	344.9	344.9	344.9	344.9	344.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9	321.9	344.9	344.9	344.9	344.9	344.9	344.9	344.9	344.9	344.9					
Vmpp @ max amb temp (50C, 122F amb)	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	335.6	335.6	335.6	335.6	335.6	335.6	335.6	335.6	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	335.6	335.6	335.6	335.6	335.6	335.6	335.6	335.6	335.6					
OCV @ 25 deg C cells	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	508.2	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5					
OCV @ coldest temp (-40C, -40F amb)	620.5	620.5	620.5	620.5	620.5	620.5	620.5	620.5	620.5	664.8	664.8	664.8	664.8	664.8	664.8	664.8	664.8	620.5	620.5	620.5	620.5	620.5	620.5	620.5	620.5	620.5	664.8	664.8	664.8	664.8	664.8	664.8	664.8	664.8	664.8					
OCV @ coldest temp (-30C, -22F amb)	613.2	613.2	613.2	613.2	613.2	613.2	613.2	613.2	613.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2	613.2	613.2	613.2	613.2	613.2	613.2	613.2	613.2	613.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2					
OCV @ coldest temp (-20C, -4F amb)	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	627.8	627.8	627.8	627.8	627.8	627.8	627.8	627.8	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	627.8	627.8	627.8	627.8	627.8	627.8	627.8	627.8	627.8					
OCV @ coldest temp (-10C, 14F amb)	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3					
OCV @ coldest temp (0C, 32F amb)	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8					
Power @ MPP (STC)	5180	6280	6280	6280	7240	8420	9620	9620	9620	11370	8560	6450	7090	7470	8360	9325	9675	5180	6280	6280	6280	7240	8420	9620	9620	9620	11370	8560	6450	7090	7470	8360	9325	9675	9675					
PTC AC system power rating	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Suggested Inverter	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW					

Table for Sanyo HIP-200BA19 (200W) with columns for Modules total in array, Modules per string, Strings in Parallel, Voltage @ MPP (STC), and various temperature/OCV ratings. Includes notes about Vmppt @ max amb temp and OCV @ coldest temperature.

Table for Sanyo HIP-200BA3 with columns for Modules total in array, Modules per string, Strings in Parallel, Voltage @ MPP (STC), and various temperature/OCV ratings. Includes notes about Vmppt @ max amb temp and OCV @ coldest temperature.

Table for Sanyo HIT Power 195 with columns for Modules total in array, Modules per string, Strings in Parallel, Voltage @ MPP (STC), and various temperature/OCV ratings. Includes notes about Vmppt @ max amb temp and OCV @ coldest temperature.

Table for Sanyo HIP-195BA19 with columns for Modules total in array, Modules per string, Strings in Parallel, Voltage @ MPP (STC), and various temperature/OCV ratings. Includes notes about Vmppt @ max amb temp and OCV @ coldest temperature.

Table for Sanyo HIP-195DA3 with columns for Modules total in array, Modules per string, Strings in Parallel, Voltage @ MPP (STC), and various temperature/OCV ratings. Includes notes about Vmppt @ max amb temp and OCV @ coldest temperature.

Module Manufacturer		Schott Solar										Schott Solar										Schott Solar										Schott Solar										Schott Solar									
Module Model		ASE-290-DGF/50-290										ASE-270-DGF/50-270										Poly 220										SAPC-175																			
Voltage @ MPP (STC)		56.1 VDC										49.1 VDC										29.7 VDC										35.4 VDC																			
Current @ MPP (STC)		5.8 ADC										5.5 ADC										8.1 ADC										4.35 ADC																			
Current, short circuit		6.4 ADC										6.1 ADC										8.1 ADC										5.55 ADC																			
OCV @ 25 deg C cells		62.5 VDC										61.3 VDC										36.5 VDC										44.4 VDC																			
Power @ MPP (STC)		5800 W										58320 W										58320 W										58320 W																			
PTC AC system power rating (STP180)		49698 W										49859 W										49879 W										48145 W																			
Suggested Inverter		PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW										PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW										PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW										PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW																			
Modules total in array		200										216										260										405																			
Modules per string		8										8										9										9																			
Strings in Parallel		25										27										29										45																			
Voltage @ MPP (STC)		400.8										396.8										386.1										386.1																			
Vmpp @ max amb temp (30C, 86F amb)		355.1										355.1										355.1										355.1																			
Vmpp @ max amb temp (35C, 95F amb)		347.5										347.5										347.5										347.5																			
Vmpp @ max amb temp (40C, 104F amb)		339.9										339.9										339.9										339.9																			
Vmpp @ max amb temp (45C, 113F amb)		332.3										332.3										332.3										332.3																			
Vmpp @ max amb temp (50C, 122F amb)		324.6										324.6										324.6										324.6																			
OCV @ 25 deg C cells		500.0										500.0										500.0										500.0																			
OCV @ coldest temp (-40C, -40F amb)		623.5										623.5										623.5										623.5																			
OCV @ coldest temp (-30C, -22F amb)		614.2										614.2										614.2										614.2																			
OCV @ coldest temp (-20C, -4F amb)		585.5										585.5										585.5										585.5																			
OCV @ coldest temp (-10C, 14F amb)		566.5										566.5										566.5										566.5																			
OCV @ coldest temp (0C, 32F amb)		547.5										547.5										547.5										547.5																			
Power @ MPP (STC)		5800 W										58320 W										58320 W										58320 W																			
PTC AC system power rating (STP180)		49698 W										49859 W										49879 W										48145 W																			
Suggested Inverter		PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW										PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW										PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW										PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW																			

Module Manufacturer		Sharp										Power @ MPP										For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK															
Module Model		ND-224U1F (U2) (UC1)										224.0 W										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)															
Voltage @ MPP (STC)		29.28 VDC										197.5 W										purple is OK but indicates inverter will limit to 95 kW AC continuous output															
Current @ MPP (STC)		7.86 ADC										0.132 V/degC (V/mpp)										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)															
Current, short circuit		8.33 ADC										0.132 V/degC (Vocv)										(note that NEC 690 prohibits system voltage to exceed 600VDC)															
OCV @ 25 deg C cells		36.6 VDC										NOCT (nom. cell temp)										117.5 deg F															
Modules total in array		224	252	294	336	378	406	448	476	504	240	270	300	345	390	405	450	480	510	224	252	294	336	378	406	448	476	504	240	270	300	345	390	405	450	480	510
Modules per string		14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15
Strings in Parallel		16	18	21	24	27	29	32	34	36	16	18	20	23	26	27	30	32	34	16	18	21	24	27	29	32	34	36	16	18	20	23	26	27	30	32	34
Voltage @ MPP (STC)		409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9	409.9	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2
Vmpp @ max amb temp (30C, 86F amb)		348.9	348.9	348.9	348.9	348.9	348.9	348.9	348.9	348.9	374.9	374.9	374.9	374.9	374.9	374.9	374.9	374.9	374.9	348.9	348.9	348.9	348.9	348.9	348.9	348.9	348.9	348.9	374.9	374.9	374.9	374.9	374.9	374.9	374.9	374.9	374.9
Vmpp @ max amb temp (35C, 95F amb)		340.6	340.6	340.6	340.6	340.6	340.6	340.6	340.6	340.6	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0	340.6	340.6	340.6	340.6	340.6	340.6	340.6	340.6	340.6	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0	365.0
Vmpp @ max amb temp (40C, 104F amb)		331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	331.4	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1
Vmpp @ max amb temp (45C, 113F amb)		322.1	322.1	322.1	322.1	322.1	322.1	322.1	322.1	322.1	342.2	342.2	342.2	342.2	342.2	342.2	342.2	342.2	342.2	322.1	322.1	322.1	322.1	322.1	322.1	322.1	322.1	322.1	342.2	342.2	342.2	342.2	342.2	342.2	342.2	342.2	342.2
Vmpp @ max amb temp (50C, 122F amb)		312.9	312.9	312.9	312.9	312.9	312.9	312.9	312.9	312.9	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	312.9	312.9	312.9	312.9	312.9	312.9	312.9	312.9	312.9	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3
OCV @ 25 deg C cells		512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4	512.4	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0	549.0
OCV @ coldest temp (-40C, -40F amb)		632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	632.5	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
OCV @ coldest temp (-30C, -22F amb)		614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	657.9	657.9	657.9	657.9	657.9	657.9	657.9	657.9	657.9	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	657.9	657.9	657.9	657.9	657.9	657.9	657.9	657.9	657.9
OCV @ coldest temp (-20C, -4F amb)		595.6	595.6	595.6	595.6	595.6	595.6	595.6	595.6	595.6	638.1	638.1	638.1	638.1	638.1	638.1	638.1	638.1	638.1	595.6	595.6	595.6	595.6	595.6	595.6	595.6	595.6	595.6	638.1	638.1	638.1	638.1	638.1	638.1	638.1	638.1	638.1
OCV @ coldest temp (-10C, 14F amb)		577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3
OCV @ coldest temp (0C, 32F amb)		558.6	558.6	558.6	558.6	558.6	558.6	558.6	558.6	558.6	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	558.6	558.6	558.6	558.6	558.6	558.6	558.6	558.6	558.6	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5
Power @ MPP (STC)		4047.6	4047.6	4047.6	4047.6	4047.6	4047.6	4047.6	4047.6	4047.6	4289.6	4289.6	4289.6	4289.6	4289.6	4289.6	4289.6	4289.6	4289.6	4047.6	4047.6	4047.6	4047.6	4047.6	4047.6	4047.6	4047.6	4047.6	4289.6	4289.6	4289.6	4289.6	4289.6	4289.6	4289.6	4289.6	4289.6
PTC AC system power rating		4224.9	4753.0	5545.2	6374.7	7129.6	7657.7	8449.8	8978.0	9506.1	4526.7	5092.5	5658.4	6071.1	6584.5	6985.5	7385.5	7784.5	8182.5	4224.9	4753.0	5545.2	6374.7	7129.6	7657.7	8449.8	8978.0	9506.1	4526.7	5092.5	5658.4	6071.1	6584.5	6985.5	7385.5	7784.5	8182.5
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW

Module Manufacturer		Sharp										Power @ MPP										For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK															
Module Model		NT-1801U (24V module)										180.0 W										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)															
Voltage @ MPP (STC)		35.86 VDC										159.0 W										purple is OK but indicates inverter will limit to 95 kW AC continuous output															
Current @ MPP (STC)		5.02 ADC										1.44 V/degC (V/mpp)										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)															
Current, short circuit		5.6 ADC										1.44 V/degC (Vocv)										(note that NEC 690 prohibits system voltage to exceed 600VDC)															
OCV @ 25 deg C cells		4.8 VDC										NOCT (nom. cell temp)										117.5 deg F															
Modules total in array		330	352	396	440	484	528	561	583	616	300	360	384	432	480	528	552	576	624	330	352	396	440	484	528	561	583	616	300	360	384	432	480	528	552	576	624
Modules per string		11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12
Strings in Parallel		30	32	36	40	44	48	51	53	56	25	30	32	36	40	44	46	48	52	30	32	36	40	44	48	51	53	56	25	30	32	36	40	44	46	48	52
Voltage @ MPP (STC)		394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	394.5	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	430.3	
Vmp @ max amb temp (30C, 86F amb)		343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	343.0	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	
Vmp @ max amb temp (35C, 95F amb)		335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	365.5	
Vmp @ max amb temp (40C, 104F amb)		327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	356.9	356.9	356.9	356.9	356.9	356.9	356.9	356.9	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	356.9	356.9	356.9	356.9	356.9	356.9	356.9	356.9	356.9	
Vmp @ max amb temp (45C, 113F amb)		319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2	348.2	348.2	348.2	348.2	348.2	348.2	348.2	348.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2	348.2	348.2	348.2	348.2	348.2	348.2	348.2	348.2	348.2	
Vmp @ max amb temp (50C, 122F amb)		311.3	311.3	311.3	311.3	311.3	311.3	311.3	311.3	311.3	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	311.3	311.3	311.3	311.3	311.3	311.3	311.3	311.3	311.3	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	
OCV @ 25 deg C cells		492.8	492.8	492.8	492.8	492.8	492.8	492.8	492.8	492.8	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6	492.8	492.8	492.8	492.8	492.8	492.8	492.8	492.8	492.8	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6	537.6	
OCV @ coldest temp (-40C, -40F amb)		593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8	593.8	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9	
OCV @ coldest temp (-30C, -22F amb)		579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6	
OCV @ coldest temp (-20C, -4F amb)		564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	
OCV @ coldest temp (-10C, 14F amb)		548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	598.1	598.1	598.1	598.1	598.1	598.1	598.1	598.1	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	598.1	598.1	598.1	598.1	598.1	598.1	598.1	598.1	598.1	
OCV @ coldest temp (0C, 32F amb)		532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	590.8	
Power @ MPP (STC)		53400	53400	71280	79200	87120	95040	100980	109980	110880	54000	64800	69120	77760	86400	95040	98360	102720	53400	53400	71280	79200	87120	95040	100980	109980	110880	54000	64800	69120	77760	86400	95040	98360	102720	107200	
PTC AC system power rating		50209	54949	60131	66812	73493	80174	85185	88526	93537	45554	54664	58308	65597	72896	80174	83818	87463	94751	50209	54949	60131	66812	73493	80174	85185	88526	93537	45554	54664	58308	65597	72896	80174	83818	87463	94751
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 65KW	PVI 65KW	PVI 65KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 65KW	PVI 65KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 65KW	PVI 65KW	PVI 65KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 65KW	PVI 65KW	PVI 65KW	

Module Manufacturer		Siemens Solar										Power @ MPP										For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK															
Module Model		SP150-24P										150.0 W										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)															
Voltage @ MPP (STC)		34 VDC										PTC Power Rating										purple is OK but indicates inverter will limit to 95 kW AC continuous output															
Current @ MPP (STC)		4.4 ADC										Temp Coeff of Vmpp										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)															
Current, short circuit		4.8 ADC										Temp Coeff of Vocv										(note that NEC 690 prohibits system voltage to exceed 600VDC)															
OCV @ 25 deg C cells		43.4 VDC										NOCT (nom. cell temp)										113 deg F															
Modules total in array		385	440	462	484	605	638	682	704	726	384	432	468	540	600	648	672	696	722	385	440	462	484	605	638	682	704	726	384	432	468	540	600	648	672	696	722
Modules per string		11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	
Strings in Parallel		35	40	42	44	55	58	62	64	66	32	36	39	45	50	54	56	58	61	35	40	42	44	55	58	62	64	66	32	36	39	45	50	54	56	58	61
Voltage @ MPP (STC)		374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	408.0	408.0	408.0	408.0	408.0	408.0	408.0	408.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	408.0	408.0	408.0	408.0	408.0	408.0	408.0	408.0		
Vmpp @ max amb temp (30C, 86F amb)		348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3		
Vmpp @ max amb temp (35C, 95F amb)		344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	375.7	375.7	375.7	375.7	375.7	375.7	375.7	375.7		
Vmpp @ max amb temp (40C, 104F amb)		340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	371.0	371.0	371.0	371.0	371.0	371.0	371.0	371.0	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	371.0	371.0	371.0	371.0	371.0	371.0	371.0	371.0		
Vmpp @ max amb temp (45C, 113F amb)		335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	366.4	366.4	366.4	366.4	366.4	366.4	366.4	366.4		
Vmpp @ max amb temp (50C, 122F amb)		331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	331.7	361.8	361.8	361.8	361.8	361.8	361.8	361.8	361.8		
OCV @ 25 deg C cells		477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4	520.8	520.8	520.8	520.8	520.8	520.8	520.8	520.8	477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4	520.8	520.8	520.8	520.8	520.8	520.8	520.8	520.8		
OCV @ coldest temp (-40C, -40F amb)		532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9		
OCV @ coldest temp (-30C, -22F amb)		524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6		
OCV @ coldest temp (-20C, -4F amb)		515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	562.4	562.4	562.4	562.4	562.4	562.4	562.4	562.4	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	562.4	562.4	562.4	562.4	562.4	562.4	562.4	562.4		
OCV @ coldest temp (-10C, 14F amb)		507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	553.1	553.1	553.1	553.1	553.1	553.1	553.1	553.1	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	553.1	553.1	553.1	553.1	553.1	553.1	553.1	553.1		
OCV @ coldest temp (0C, 32F amb)		498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	543.9	543.9	543.9	543.9	543.9	543.9	543.9	543.9		
Power @ MPP (STC)		5775.0	6300.0	6300.0	6300.0	6300.0	6300.0	6300.0	6300.0	6300.0	10230.0	10230.0	10230.0	10230.0	10230.0	10230.0	10230.0	10230.0	5775.0	6300.0	6300.0	6300.0	6300.0	6300.0	6300.0	6300.0	6300.0	10230.0	10230.0	10230.0	10230.0	10230.0	10230.0	10230.0	10230.0		
PTC AC system power rating		4959.0	5668.5	5919.0	6235.5	7794.0	8219.0	8762.0	9096.0	9386.0	5437.0	5565.4	5629.0	5695.8	5729.8	5842.0	5867.3	5943.9	4959.0	5668.5	5919.0	6235.5	7794.0	8219.0	8762.0	9096.0	9386.0	5437.0	5565.4	5629.0	5695.8	5729.8	5842.0	5867.3	5943.9		
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW	PVI 95KW		

Module Manufacturer		Solar Fabrik Series										200.0 W										For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK															
Module Model		SF 200A-200										0.0 W										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)															
Voltage @ MPP (STC)		27.6 VDC										PTC Power Rating										For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK															
Current @ MPP (STC)		7.27 ADC										Temp Coeff of Vmp										purple is OK but indicates inverter will limit to 95 kW AC continuous output															
Current, short circuit		7.77 ADC										Temp Coeff of Vocv										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)															
OCV @ 25 deg C cells		35 VDC										NOCT (nom. cell temp)										(note that NEC 690 prohibits system voltage to exceed 600VDC)															
Modules total in array		252	336	364	378	420	476	490	532	560	300	330	360	375	435	480	495	525	570	252	336	364	378	420	476	490	532	560	300	330	360	375	435	480	495	525	570
Modules per string		14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15
Strings in Parallel		18	24	26	27	30	34	35	38	40	20	22	24	25	29	32	33	35	38	18	24	26	27	30	34	35	38	40	20	22	24	25	29	32	33	35	38
Voltage @ MPP (STC)		386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4	386.4	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	
Vmp @ max amb temp (30C, 86F amb)		333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	357.3	
Vmp @ max amb temp (35C, 95F amb)		324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	324.7	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	
Vmp @ max amb temp (40C, 104F amb)		315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	315.8	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	338.4	
Vmp @ max amb temp (45C, 113F amb)		307.0	307.0	307.0	307.0	307.0	307.0	307.0	307.0	307.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	307.0	307.0	307.0	307.0	307.0	307.0	307.0	307.0	307.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	
Vmp @ max amb temp (50C, 122F amb)		298.2	298.2	298.2	298.2	298.2	298.2	298.2	298.2	298.2	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	298.2	298.2	298.2	298.2	298.2	298.2	298.2	298.2	298.2	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	319.5	
OCV @ 25 deg C cells		490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	490.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	
OCV @ coldest temp (-40C, -40F amb)		587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	629.0	
OCV @ coldest temp (-30C, -22F amb)		569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	569.4	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	610.1	
OCV @ coldest temp (-20C, -4F amb)		551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7	591.2	591.2	591.2	591.2	591.2	591.2	591.2	591.2	551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7	551.7	591.2	591.2	591.2	591.2	591.2	591.2	591.2	591.2	591.2	
OCV @ coldest temp (-10C, 14F amb)		534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.1	574.3	574.3	574.3	574.3	574.3	574.3	574.3	574.3	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.1	534.1	574.3	574.3	574.3	574.3	574.3	574.3	574.3	574.3	574.3	
Power @ MPP (STC)		5040.0	6720.0	7280.0	7560.0	8300.0	9520.0	9800.0	10640.0	11200.0	6600.0	7200.0	7800.0	8000.0	9000.0	9600.0	9800.0	10500.0	5040.0	6720.0	7280.0	7560.0	8300.0	9520.0	9800.0	10640.0	11200.0	6600.0	7200.0	7800.0	8000.0	9000.0	9600.0	9800.0	10500.0	11400.0	
PTC AC system power rating		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	

Module Manufacturer		Solar Power													Solar Power													Solar World / Shell													Solar World / Shell													Solar World / Shell												
Module Model		SP 200FP12													SP 170													SW 245 mono													SW 240 mono													SW 236 mono												
Voltage @ MPT (STC)		25.41 VDC													34.97 VDC													30.1 VDC													8.02 VDC													29.8 VDC												
Current @ MPT (STC)		7.87 ADC													4.86 ADC													8.14 ADC													8.68 ADC													7.89 ADC												
Current, short circuit		8.4 ADC													5.28 ADC													8.78 ADC													8.54 ADC													8.54 ADC												
OCV @ 25 deg C cells		32.3 VDC													43.3 VDC													37.1 VDC													37.1 VDC													37 VDC												
Power @ MPT (STC)		300 W													170.0 W													245.0 W													240.0 W													235.0 W												
PTC AC system power rating		183.1 W													146.6 W													0.0 W													0.0 W													0.0 W												
Suggested Inverter		PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW													PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW													PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW													PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW													PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW												
Temp Coeff of Vmp		-0.113 V/DegC													-0.124 V/DegC													-0.123 V/DegC													-0.122 V/DegC													-0.122 V/DegC												
Temp Coeff of Voc		-0.113 V/DegC													-0.154 V/DegC													-0.123 V/DegC													-0.122 V/DegC													-0.122 V/DegC												
NOCT (nom. cell temp)		48.6 deg C													46 deg C													46 deg C													46 deg C													46 deg C												
Modules total in array		330													330													221													234													234												
Modules per string		15													11													13													13													13												
Strings in Parallel		20													11													17													18													18												
Voltage @ MPP (STC)		381.2													381.2													381.2													381.2													381.2												
Vmpp @ max amb temp (30C, 86F amb)		324.2													324.2													324.2													324.2													324.2												
Vmpp @ max amb temp (35C, 95F amb)		315.7													315.7													315.7													315.7													315.7												
Vmpp @ max amb temp (40C, 104F amb)		307.2													307.2													307.2													307.2													307.2												
Vmpp @ max amb temp (45C, 113F amb)		298.8													298.8													298.8													298.8													298.8												
Vmpp @ max amb temp (50C, 122F amb)		290.3													290.3													290.3													290.3													290.3												
OCV @ 25 deg C cells		484.5													484.5													484.5													484.5													484.5												
OCV @ coldest temp (-40C, -40F amb)		594.7													594.7													594.7													594.7													594.7												
OCV @ coldest temp (-30C, -22F amb)		577.7													577.7													577.7													577.7													577.7												
OCV @ coldest temp (-20C, -4F amb)		560.8													560.8													560.8													560.8													560.8												
OCV @ coldest temp (-10C, 14F amb)		543.8													543.8													543.8													543.8													543.8												
OCV @ coldest temp (0C, 32F amb)		526.9													526.9													526.9													526.9													526.9												
Power @ MPP (STC)		6000W													6000W													6000W													6000W													6000W												
PTC AC system power rating		5245W													5245W													5245W													5245W													5245W												
Suggested Inverter		PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW													PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW													PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW													PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW													PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW PVI 60KW PVI 60KW PVI 62KW PVI 62KW PVI 65KW PVI 65KW												

Module Manufacturer		Solar World / Shell		Power @ MPT		230.0 W		For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 330VDC), purple is OK but indicates inverter will limit to 95 kW AC continuous output pink is acceptable but should be avoided where possible (inverter will not run above 600VDC) (note that NEC 690 prohibits system voltage to exceed 600VDC)																													
Module Model		SW 230 mono		PTC Power Rating		0.0																															
Voltage @ MPT (STC)		29.6 VDC		Temp Coeff of Vmp		0.122 V/degC (Vmp)																															
Current @ MPT (STC)		7.76 ADC		Temp Coeff of Voc		0.122 V/degC (Voc)																															
Current, short circuit		8.42 ADC		NOCT (nom. cell temp)		46 deg C		114.8 deg F																													
OCV @ 25 deg C cells		36.9 VDC		cold climates only and 5% low voltage tap recommended																																	
Modules total in array		234		286		338		403		455		494		224		280		336		392		448		504		210		270		300		360		420		480	
Modules per string		13		13		13		13		13		13		14		14		14		14		14		14		15		15		15		15		15		15	
Strings in Parallel		18		22		26		31		35		38		16		20		24		28		32		36		14		18		20		24		28		32	
Voltage @ MPP (STC)		384.8		384.8		384.8		384.8		384.8		384.8		414.4		414.4		414.4		414.4		414.4		414.4		444.0		444.0		444.0		444.0		444.0		444.0	
Vmp @ max amb temp (30C, 86F amb)		335.6	335.6	335.6	335.6	335.6	335.6	335.6	335.6	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5	361.5
Vmp @ max amb temp (35C, 95F amb)		327.7	327.7	327.7	327.7	327.7	327.7	327.7	327.7	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9	352.9
Vmp @ max amb temp (40C, 104F amb)		319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4
Vmp @ max amb temp (45C, 113F amb)		311.8	311.8	311.8	311.8	311.8	311.8	311.8	311.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8	335.8
Vmp @ max amb temp (50C, 122F amb)		303.9	303.9	303.9	303.9	303.9	303.9	303.9	303.9	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3	327.3
OCV @ 25 deg C cells		479.7	479.7	479.7	479.7	479.7	479.7	479.7	479.7	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6	516.6
OCV @ coldest temp (-40C, -40F amb)		582.8	582.8	582.8	582.8	582.8	582.8	582.8	582.8	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6
OCV @ coldest temp (-30C, -22F amb)		569.9	569.9	569.9	569.9	569.9	569.9	569.9	569.9	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5
OCV @ coldest temp (-20C, -4F amb)		551.1	551.1	551.1	551.1	551.1	551.1	551.1	551.1	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5
OCV @ coldest temp (-10C, 14F amb)		535.2	535.2	535.2	535.2	535.2	535.2	535.2	535.2	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4
OCV @ coldest temp (0C, 32F amb)		519.4	519.4	519.4	519.4	519.4	519.4	519.4	519.4	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.3
Power @ MPP (STC)		53820	65780	77740	92890	104650	113620	125120	138200	151520	164400	177820	190800	203400	215600	227400	238800	250000	261000	271800	282400	292800	303000	313000	322800	332400	341800	351000	360000	369000	378000	386800	395400	403800	412000	420000	428000
PTC AC system power rating		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Suggested Inverter		PVI 60kW	PVI 60kW	PVI 82kW	PVI 82kW	PVI 95kW	PVI 95kW	PVI 60kW	PVI 60kW	PVI 82kW	PVI 82kW	PVI 95kW	PVI 95kW	PVI 60kW	PVI 60kW	PVI 82kW	PVI 82kW	PVI 95kW	PVI 95kW	PVI 60kW	PVI 60kW	PVI 82kW	PVI 82kW	PVI 95kW	PVI 95kW	PVI 60kW	PVI 60kW	PVI 82kW	PVI 82kW	PVI 95kW	PVI 95kW	PVI 60kW	PVI 60kW	PVI 82kW	PVI 82kW	PVI 95kW	PVI 95kW

Module Manufacturer		Solar World (Shell)										Power @ MPP		175.0 W		158.3W for mono/P		For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Module Model		SW 175 mono/T /SQ175-PC (or -P)										PTC Power Rating		162.7 W		(Vmpp)		orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)									
Voltage @ MPP (STC)		35.8 VDC										4.89 ADC		Temp Coeff of Vmp		0.125 V/degC		purple is OK but indicates inverter will limit to 95 kW AC continuous output									
Current @ MPP (STC)		5.3 ADC										Temp Coeff of Voc		0.155 V/degC		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)											
Current, short circuit		4.4 ADC										NOCT (nom. cell temp)		46 deg C		114.8 deg F		(note that NEC 690 prohibits system voltage to exceed 600VDC)									
OCV @ 25 deg C cells		5.3 VDC																									
Modules total in array		330	352	396	440	495	528	572	594	616	300	360	384	432	480	540	576	600	624	624							
Modules per string		11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12							
Strings in Parallel		30	32	36	40	45	48	52	54	56	25	30	32	36	40	45	48	50	52	52							
Voltage @ MPP (STC)		393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	429.6	429.6	429.6	429.6	429.6	429.6	429.6	429.6	429.6	429.6							
Vmp @ max amb temp (30C, 86F amb)		351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2	351.2	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1							
Vmp @ max amb temp (35C, 95F amb)		344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	344.3	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6							
Vmp @ max amb temp (40C, 104F amb)		337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	368.1	368.1	368.1	368.1	368.1	368.1	368.1	368.1	368.1	368.1							
Vmp @ max amb temp (45C, 113F amb)		330.6	330.6	330.6	330.6	330.6	330.6	330.6	330.6	330.6	360.6	360.6	360.6	360.6	360.6	360.6	360.6	360.6	360.6	360.6							
Vmp @ max amb temp (50C, 122F amb)		323.7	323.7	323.7	323.7	323.7	323.7	323.7	323.7	323.7	353.1	353.1	353.1	353.1	353.1	353.1	353.1	353.1	353.1	353.1							
OCV @ 25 deg C cells		488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8							
OCV @ coldest temp (-40C, -40F amb)		599.2	599.2	599.2	599.2	599.2	599.2	599.2	599.2	599.2	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7							
OCV @ coldest temp (-30C, -22F amb)		582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	582.2	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1							
OCV @ coldest temp (-20C, -4F amb)		565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5							
OCV @ coldest temp (-10C, 14F amb)		548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1	548.1	597.9	597.9	597.9	597.9	597.9	597.9	597.9	597.9	597.9	597.9							
OCV @ coldest temp (0C, 32F amb)		531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	531.0	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3	579.3							
Power @ MPP (STC)		5775.0	6160.0	6300.0	7700.0	8625.0	9240.0	10010.0	10780.0	10850.0	12700.0	15200.0	16300.0	17500.0	18400.0	19450.0	19800.0	19800.0	19800.0	19800.0	19800.0						
PTC AC system power rating		5175.0	5493.0	6150.0	6637.0	7591.0	8204.0	8877.0	9229.5	9571.3	10641.4	12154.6	13154.6	14154.6	14724.6	15724.6	15724.6	15724.6	15724.6	15724.6	15724.6						
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 65KW	PVI 65KW	PVI 65KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 62KW	PVI 62KW	PVI 62KW	PVI 65KW	PVI 65KW	PVI 65KW	PVI 65KW	PVI 65KW						

Module Manufacturer		Solartech		Power @ MPP		210.0 W				For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK orange is acceptable but should be avoided where possible (inverter will hold at 330VDC), purple is OK but indicates inverter will limit to 95 kW AC continuous output pink is acceptable but should be avoided where possible (inverter will not run above 600VDC) (note that NEC 690 prohibits system voltage to exceed 600VDC) *NOTC is estimated									
Module Model		SPM 210P		PTC Power Rating		180.10 W													
Voltage @ MPP (STC)		23.97 VDC		Temp Coeff of Vmpp		0.104 V/DegC		(V/mpp)											
Current @ MPP (STC)		7.25 ADC		Temp Coeff of Vocv		0.129 V/DegC		(Vocv)											
Current, short circuit		7.76 ADC		NOCT (nom. cell temp)		46 deg C		114.8 deg F											
OCV @ 25 deg C cells		35.90 VDC		cool climates only and 5% low voltage tap recommended															
Modules total in array		234	286	338	390	442	494	252	308	364	420	476	532	210	270	330	390	450	510
Modules per string		13	13	13	13	13	13	14	14	14	14	14	14	15	15	15	15	15	15
Strings in Parallel		18	22	26	30	34	38	18	22	26	30	34	38	14	18	22	26	30	34
Voltage @ MPP (STC)		376.6	376.6	376.6	376.6	376.6	376.6	405.6	405.6	405.6	405.6	405.6	405.6	434.6	434.6	434.6	434.6	434.6	434.6
Vmpp @ max amb temp (30C, 86F amb)		334.6	334.6	334.6	334.6	334.6	334.6	360.3	360.3	360.3	360.3	360.3	360.3	386.1	386.1	386.1	386.1	386.1	386.1
Vmpp @ max amb temp (35C, 95F amb)		327.8	327.8	327.8	327.8	327.8	327.8	353.0	353.0	353.0	353.0	353.0	353.0	378.2	378.2	378.2	378.2	378.2	378.2
Vmpp @ max amb temp (40C, 104F amb)		321.0	321.0	321.0	321.0	321.0	321.0	345.7	345.7	345.7	345.7	345.7	345.7	370.4	370.4	370.4	370.4	370.4	370.4
Vmpp @ max amb temp (45C, 113F amb)		314.2	314.2	314.2	314.2	314.2	314.2	338.4	338.4	338.4	338.4	338.4	338.4	362.6	362.6	362.6	362.6	362.6	362.6
Vmpp @ max amb temp (50C, 122F amb)		307.5	307.5	307.5	307.5	307.5	307.5	331.1	331.1	331.1	331.1	331.1	331.1	354.8	354.8	354.8	354.8	354.8	354.8
OCV @ 25 deg C cells		466.7	466.7	466.7	466.7	466.7	466.7	502.6	502.6	502.6	502.6	502.6	502.6	538.5	538.5	538.5	538.5	538.5	538.5
OCV @ coldest temp (-40C, -40F amb)		575.9	575.9	575.9	575.9	575.9	575.9	620.2	620.2	620.2	620.2	620.2	620.2	664.5	664.5	664.5	664.5	664.5	664.5
OCV @ coldest temp (-30C, -22F amb)		559.1	559.1	559.1	559.1	559.1	559.1	599.1	599.1	599.1	599.1	599.1	599.1	645.1	645.1	645.1	645.1	645.1	645.1
OCV @ coldest temp (-20C, -4F amb)		542.3	542.3	542.3	542.3	542.3	542.3	584.0	584.0	584.0	584.0	584.0	584.0	625.7	625.7	625.7	625.7	625.7	625.7
OCV @ coldest temp (-10C, 14F amb)		525.5	525.5	525.5	525.5	525.5	525.5	565.9	565.9	565.9	565.9	565.9	565.9	606.4	606.4	606.4	606.4	606.4	606.4
OCV @ coldest temp (0C, 32F amb)		508.7	508.7	508.7	508.7	508.7	508.7	547.8	547.8	547.8	547.8	547.8	547.8	587.0	587.0	587.0	587.0	587.0	587.0
Power @ MPP (STC)		4194.7	6066.7	7098.0	8190.0	9280.0	10374.0	5292.0	7444.0	8200.0	9960.0	11720.0	4410.0	5670.0	6300.0	8190.0	9450.0	10710.0	12000.0
PTC AC system power rating		4047	49191	58134	67078	76022	84966	43343	52975	62606	72238	81870	91502	36119	46839	56759	67078	77398	87718
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 95KW	PVI 95KW

Module Manufacturer	Sunpower												Order Positive Ground Option for Sunpower Arrays																								
Module Model	315 SOLAR PANEL												Power @ MPP																								
Voltage @ MPP (STC)	54.7 VDC												PTC Power Rating																								
Current @ MPP (STC)	5.76 ADC												Temp Coeff of Vmp																								
Current, short circuit	6.14 ADC												Temp Coeff of Voc																								
OCV @ 25 deg C cells	64.6 VDC												NOCT (nom. cell temp)																								
													45 deg C																								
													113 deg F																								
Modules total in array	154	175	210	224	245	266	280	315	336	160	184	216	224	256	272	288	320	336	154	175	210	224	245	266	280	315	336	160	184	216	224	256	272	288	320	336	
Modules per string	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Strings in Parallel	22	25	30	32	35	38	40	45	48	20	23	27	28	32	34	36	40	42	22	25	30	32	35	38	40	45	48	20	23	27	28	32	34	36	40	42	
Voltage @ MPP (STC)	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	437.6	437.6	437.6	437.6	437.6	437.6	437.6	437.6	437.6	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	382.9	437.6	437.6	437.6	437.6	437.6	437.6	437.6	437.6	437.6	
Vmp @ max amb temp (30C, 86F amb)	345.9	345.9	345.9	345.9	345.9	345.9	345.9	345.9	345.9	395.4	395.4	395.4	395.4	395.4	395.4	395.4	395.4	395.4	345.9	345.9	345.9	345.9	345.9	345.9	345.9	345.9	345.9	395.4	395.4	395.4	395.4	395.4	395.4	395.4	395.4	395.4	
Vmp @ max amb temp (35C, 95F amb)	339.8	339.8	339.8	339.8	339.8	339.8	339.8	339.8	339.8	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	339.8	339.8	339.8	339.8	339.8	339.8	339.8	339.8	339.8	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	
Vmp @ max amb temp (40C, 104F amb)	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	381.3	
Vmp @ max amb temp (45C, 113F amb)	327.5	327.5	327.5	327.5	327.5	327.5	327.5	327.5	327.5	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	327.5	327.5	327.5	327.5	327.5	327.5	327.5	327.5	327.5	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	374.2	
Vmp @ max amb temp (50C, 122F amb)	321.3	321.3	321.3	321.3	321.3	321.3	321.3	321.3	321.3	367.2	367.2	367.2	367.2	367.2	367.2	367.2	367.2	367.2	321.3	321.3	321.3	321.3	321.3	321.3	321.3	321.3	321.3	367.2	367.2	367.2	367.2	367.2	367.2	367.2	367.2	367.2	
OCV @ 25 deg C cells	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	516.8	
OCV @ coldest temp (-40C, -40F amb)	532.3	532.3	532.3	532.3	532.3	532.3	532.3	532.3	532.3	594.2	594.2	594.2	594.2	594.2	594.2	594.2	594.2	594.2	532.3	532.3	532.3	532.3	532.3	532.3	532.3	532.3	532.3	594.2	594.2	594.2	594.2	594.2	594.2	594.2	594.2	594.2	
OCV @ coldest temp (-30C, -22F amb)	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	580.2	580.2	580.2	580.2	580.2	580.2	580.2	580.2	580.2	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	520.0	580.2	580.2	580.2	580.2	580.2	580.2	580.2	580.2	580.2	
OCV @ coldest temp (-20C, -4F amb)	507.6	507.6	507.6	507.6	507.6	507.6	507.6	507.6	507.6	566.1	566.1	566.1	566.1	566.1	566.1	566.1	566.1	566.1	507.6	507.6	507.6	507.6	507.6	507.6	507.6	507.6	507.6	566.1	566.1	566.1	566.1	566.1	566.1	566.1	566.1	566.1	
OCV @ coldest temp (-10C, 14F amb)	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	495.3	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	
OCV @ coldest temp (0C, 32F amb)	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	538.0	
Power @ MPP (STC)	485.1	512.5	615.0	705.0	771.5	837.0	882.0	920.0	958.0	1054.0	1040.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	485.1	512.5	615.0	705.0	771.5	837.0	882.0	920.0	958.0	1054.0	1040.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	
PTC AC system power rating	482.6	487.3	584.8	623.9	682.7	745.5	779.4	877.2	935.9	1045.6	1024.0	1051.1	1051.1	1051.1	1051.1	1051.1	1051.1	1051.1	482.6	487.3	584.8	623.9	682.7	745.5	779.4	877.2	935.9	1045.6	1024.0	1051.1	1051.1	1051.1	1051.1	1051.1	1051.1	1051.1	1051.1
Suggested Inverter	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)
purple is OK but indicates inverter will limit to 95 KW AC continuous output
pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)
(note that NEC 690 prohibits system voltage to exceed 600VDC)

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
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purple is OK but indicates inverter will limit to 95 KW AC continuous output
pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)
(note that NEC 690 prohibits system voltage to exceed 600VDC)

Module Manufacturer	Sunpower																						Order Positive Ground Option for Sunpower Arrays				
Module Model	SPR-215-BLK											Power @ MPP					215.0 W										
Voltage @ MPP (STC)	39.8 VDC											PTC Power Rating					197.6 W										
Current @ MPP (STC)	5.4 ADC											Temp Coeff of Vmp					0.1368 V/degC										
Current, short circuit	5.8 ADC											Temp Coeff of Vocv					0.1368 V/degC										
OCV @ 25 deg C cells	48.3 VDC											NOCT (nom. cell temp)					50.5 deg C										
Modules total in array	230	280	300	320	350	400	420	460	500	220	264	308	330	385	396	418	462	506									
Modules per string	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11									
Strings in Parallel	23	28	30	32	35	40	42	46	50	20	24	28	30	35	36	38	42	46									
Voltage @ MPP (STC)	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	437.8	437.8	437.8	437.8	437.8	437.8	437.8	437.8	437.8									

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
 orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)
 purple is OK but indicates inverter will limit to 95 kW AC continuous output
 pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)
 (note that NEC 690 prohibits system voltage to exceed 600VDC)

Module Manufacturer	Sunpower																						Order Positive Ground Option for Sunpower Arrays				
Module Model	SPR-210-WHT											Power @ MPP					193.7 W										
Voltage @ MPP (STC)	40 VDC											PTC Power Rating					193.7 W										
Current @ MPP (STC)	5.25 ADC											Temp Coeff of Vmp					0.1368 V/degC										
Current, short circuit	5.75 ADC											Temp Coeff of Vocv					0.1368 V/degC										
OCV @ 25 deg C cells	47.7 VDC											NOCT (nom. cell temp)					50.5 deg C										
Modules total in array	230	280	320	340	360	420	440	480	520	242	275	308	330	385	418	440	484	517									
Modules per string	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11									
Strings in Parallel	23	28	32	34	36	42	44	48	52	22	25	28	30	33	38	40	44	47									
Voltage @ MPP (STC)	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0									

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
 orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)
 purple is OK but indicates inverter will limit to 95 kW AC continuous output
 pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)
 (note that NEC 690 prohibits system voltage to exceed 600VDC)

Module Manufacturer	Sunpower																						Order Positive Ground Option for Sunpower Arrays				
Module Model	SPR-205-BLK											Power @ MPP					205.0 W										
Voltage @ MPP (STC)	40 VDC											PTC Power Rating					189.0 W										
Current @ MPP (STC)	5.13 ADC											Temp Coeff of Vmp					0.1368 V/degC										
Current, short circuit	5.83 ADC											Temp Coeff of Vocv					0.1368 V/degC										
OCV @ 25 deg C cells	47.8 VDC											NOCT (nom. cell temp)					50.5 deg C										
Modules total in array	230	280	320	350	360	400	440	480	530	242	275	330	352	374	418	440	462	528									
Modules per string	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11									
Strings in Parallel	23	28	32	35	36	40	44	48	53	22	25	30	32	34	38	40	42	48									
Voltage @ MPP (STC)	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0									

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
 orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)
 purple is OK but indicates inverter will limit to 95 kW AC continuous output
 pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)
 (note that NEC 690 prohibits system voltage to exceed 600VDC)

Module Manufacturer	Suntech																						Order Positive Ground Option for Sunpower Arrays				
Module Model	STP280(S)-24Vb-1											Power @ MPP					280.0 W										
Voltage @ MPP (STC)	35.2 VDC											PTC Power Rating					252.0 0.0 W*										
Current @ MPP (STC)	7.95 ADC											Temp Coeff of Vmp					0.152 V/degC										
Current, short circuit	8.23 ADC											Temp Coeff of Vocv					0.152 V/degC										
OCV @ 25 deg C cells	44.8 VDC											NOCT (nom. cell temp)					45 deg C										
Modules total in array	176	220	264	308	352	396	216	240	264	312	360	408															
Modules per string	11	11	11	11	11	11	12	12	12	12	12	12															
Strings in Parallel	16	20	24	28	32	36	18	20	22	26	30	34															
Voltage @ MPP (STC)	387.2	387.2	387.2	387.2	387.2	387.2	422.4	422.4	422.4	422.4	422.4	422.4															

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
 orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)
 purple is OK but indicates inverter will limit to 95 kW AC continuous output
 pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)
 (note that NEC 690 prohibits system voltage to exceed 600VDC)

Module Manufacturer	Suntech																						Order Positive Ground Option for Sunpower Arrays				
Module Model	STP275(S)-24Vb-1											Power @ MPP					270.0 W										
Voltage @ MPP (STC)	35 VDC											PTC Power Rating					242.8 0.0 W*										
Current @ MPP (STC)	7.71 ADC											Temp Coeff of Vmp					0.152 V/degC										
Current, short circuit	8.14 ADC											Temp Coeff of Vocv					0.152 V/degC										
OCV @ 25 deg C cells	44.8 VDC											NOCT (nom. cell temp)					45 deg C										
Modules total in array	198	242	286	330	374	418	216	240	264	312	360	408															
Modules per string	11	11	11	11	11	11	12	12	12	12	12	12															
Strings in Parallel	18	22	26	30	34	38	18	20	22	26	30	34															
Voltage @ MPP (STC)	385.0	385.0	385.0	385.0	385.0	385.0	420.0	420.0	420.0	420.0	420.0	420.0															

For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK
 orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)
 purple is OK but indicates inverter will limit to 95 kW AC continuous output
 pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)
 (note that NEC 690 prohibits system voltage to exceed 600VDC)

Module Manufacturer		Suntech		Power @ MPP		260.0 W					
Module Model		STP260(S)-24/Vb-1		PTC Power Rating		233.6 W		W*		For Vmpp @ max amp temp and OCV @ coldest temperature, green is OK, red is not OK	
Voltage @ MPP (STC)		7.43 ADC		Temp Coeff of Vmpp		0.151 V/degC		(V/mpp)		orange is acceptable but should be avoided where possible (inverter will hold at 330VDC), purple is OK but indicates inverter will limit to 95 kW AC continuous output	
Current @ MPP (STC)		8.04 ADC		Temp Coeff of Vocv		0.151 V/degC		(Vocv)		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)	
Current, short circuit		4.43 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F		(note that NEC 690 prohibits system voltage to exceed 600VDC)	
OCV @ 25 deg C cells		38.0 VDC		cool climates only and 5% low voltage tap recommended							
Modules total in array	198	286	330	374	418	462	506	550	594	638	682
Modules per string	11	11	11	11	11	11	11	11	11	11	11
Strings in Parallel	18	22	26	30	34	38	42	46	50	54	58
Voltage @ MPP (STC)	385.0	385.0	385.0	385.0	385.0	385.0	385.0	385.0	385.0	385.0	385.0
Vmpp @ max amp temp (30C, 86F amb)	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3	335.3
Vmpp @ max amp temp (35C, 95F amb)	327.0	327.0	327.0	327.0	327.0	327.0	327.0	327.0	327.0	327.0	327.0
Vmpp @ max amp temp (40C, 104F amb)	318.7	318.7	318.7	318.7	318.7	318.7	318.7	318.7	318.7	318.7	318.7
Vmpp @ max amp temp (45C, 113F amb)	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4
Vmpp @ max amp temp (50C, 122F amb)	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2
OCV @ 25 deg C cells	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
OCV @ coldest temp (-40C, -40F amb)	595.9	595.9	595.9	595.9	595.9	595.9	595.9	595.9	595.9	595.9	595.9
OCV @ coldest temp (-30C, -22F amb)	574.8	574.8	574.8	574.8	574.8	574.8	574.8	574.8	574.8	574.8	574.8
OCV @ coldest temp (-20C, -4F amb)	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9	561.9
OCV @ coldest temp (-10C, 14F amb)	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3
OCV @ coldest temp (0C, 32F amb)	528.7	528.7	528.7	528.7	528.7	528.7	528.7	528.7	528.7	528.7	528.7
Power @ MPP (STC)	5119	6320	7436	8560	9684	10808	11932	13056	14180	15304	16428
PTC AC system power rating (STP260)	44171	53987	63803	73619	83435	93251	103067	112883	122699	132515	142331
PTC AC system power rating (STP260S)	0	0	0	0	0	0	0	0	0	0	0
Suggested Inverter	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW

Module Manufacturer		Suntech		Power @ MPP		210.0 W					
Module Model		STP210(S)-24(18)Ub-1		PTC Power Rating		189.0 184.5 W*		W*		For Vmpp @ max amp temp and OCV @ coldest temperature, green is OK, red is not OK	
Voltage @ MPP (STC)		7.95 ADC		Temp Coeff of Vmpp		0.114 V/degC		(V/mpp)		orange is acceptable but should be avoided where possible (inverter will hold at 330VDC), purple is OK but indicates inverter will limit to 95 kW AC continuous output	
Current @ MPP (STC)		8.33 ADC		Temp Coeff of Vocv		0.114 V/degC		(Vocv)		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)	
Current, short circuit		4.36 ADC		NOCT (nom. cell temp)		45 deg C		113 deg F		(note that NEC 690 prohibits system voltage to exceed 600VDC)	
OCV @ 25 deg C cells		38.0 VDC		cool climates only and 5% low voltage tap recommended							
Modules total in array	270	300	330	345	405	450	465	495	525	555	585
Modules per string	15	15	15	15	15	15	15	15	15	15	15
Strings in Parallel	18	20	22	23	27	30	31	33	35	37	39
Voltage @ MPP (STC)	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0	396.0
Vmpp @ max amp temp (30C, 86F amb)	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6
Vmpp @ max amp temp (35C, 95F amb)	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0
Vmpp @ max amp temp (40C, 104F amb)	327.5	327.5	327.5	327.5	327.5	327.5	327.5	327.5	327.5	327.5	327.5
Vmpp @ max amp temp (45C, 113F amb)	318.9	318.9	318.9	318.9	318.9	318.9	318.9	318.9	318.9	318.9	318.9
Vmpp @ max amp temp (50C, 122F amb)	310.3	310.3	310.3	310.3	310.3	310.3	310.3	310.3	310.3	310.3	310.3
OCV @ 25 deg C cells	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0
OCV @ coldest temp (-40C, -40F amb)	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4	615.4
OCV @ coldest temp (-30C, -22F amb)	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2	598.2
OCV @ coldest temp (-20C, -4F amb)	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1	581.1
OCV @ coldest temp (-10C, 14F amb)	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
OCV @ coldest temp (0C, 32F amb)	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8	546.8
Power @ MPP (STC)	56700	63000	69300	72450	80500	89500	97650	103950	110250	116550	122850
PTC AC system power rating (STP210)	48734	54149	59563	62271	71000	81223	89390	98345	107300	116255	125210
PTC AC system power rating (STP210S)	48605	54005	59406	62106	72907	81008	87078	95109	103140	111171	119202
Suggested Inverter	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW	PVI 60KW

Module Manufacturer		Suntech										* PTC power rating is 157.8W for the STP-175-24/Ab-1, the STP-175S-24/Ab-1 has a PTC power of 154.5W																													
Module Model		STP175(S)-24/Ab-1										Power @ MPP										170.0 W										For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Voltage @ MPP (STC)		35.2 VDC										PTC Power Rating										157.8 W										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)									
Current @ MPP (STC)		4.95 ADC										Temp Coeff of Vmp										0.155 V/degC										purple is OK but indicates inverter will limit to 95 kW AC continuous output									
Current, short circuit		5.2 ADC										Temp Coeff of Vocv										0.155 V/degC										pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)									
OCV @ 25 deg C cells		44.2 VDC										NOCT (nom. cell temp)										48 deg C										118.4 deg F									
Modules total in array		cool climates only and 5% low voltage tap recommended																																							
Modules per string		11 11 11 11 11 11 11 11 11 11																																							
Strings in Parallel		30 30 30 30 30 30 30 30 30 30																																							
Voltage @ MPP (STC)		387.2 387.2 387.2 387.2 387.2 387.2 387.2 387.2 387.2 387.2																																							
Vmp @ max amb temp (30C, 86F amb)		330.9 330.9 330.9 330.9 330.9 330.9 330.9 330.9 330.9 330.9																																							
Vmp @ max amb temp (35C, 95F amb)		322.4 322.4 322.4 322.4 322.4 322.4 322.4 322.4 322.4 322.4																																							
Vmp @ max amb temp (40C, 104F amb)		313.9 313.9 313.9 313.9 313.9 313.9 313.9 313.9 313.9 313.9																																							
Vmp @ max amb temp (45C, 113F amb)		305.4 305.4 305.4 305.4 305.4 305.4 305.4 305.4 305.4 305.4																																							
Vmp @ max amb temp (50C, 122F amb)		296.8 296.8 296.8 296.8 296.8 296.8 296.8 296.8 296.8 296.8																																							
OCV @ 25 deg C cells		486.2 486.2 486.2 486.2 486.2 486.2 486.2 486.2 486.2 486.2																																							
OCV @ coldest temp (-40C, -40F amb)		597.0 597.0 597.0 597.0 597.0 597.0 597.0 597.0 597.0 597.0																																							
OCV @ coldest temp (-30C, -22F amb)		580.0 580.0 580.0 580.0 580.0 580.0 580.0 580.0 580.0 580.0																																							
OCV @ coldest temp (-20C, -4F amb)		562.9 562.9 562.9 562.9 562.9 562.9 562.9 562.9 562.9 562.9																																							
OCV @ coldest temp (-10C, 14F amb)		545.9 545.9 545.9 545.9 545.9 545.9 545.9 545.9 545.9 545.9																																							
OCV @ coldest temp (0C, 32F amb)		528.8 528.8 528.8 528.8 528.8 528.8 528.8 528.8 528.8 528.8																																							
Power @ MPP (STC)		5772 6325 67375 77000 80850 84700 92400 105875 111650 58800 63000 67200 73500 84000 88200 92400 111300																																							
PTC AC system power rating (STP175)		49731 54704 58019 62608 69623 72938 79569 91173 96146 50635 54252 57868 63294 73296 75852 79569 86803 95845																																							
PTC AC system power rating (STP175S)		48691 53560 56806 64921 68167 71413 77905 89266 94135 49576 53117 56568 61970 70823 74364 77905 84987 93840																																							
Suggested Inverter		PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW PVI 60KW																																							

Module Manufacturer		Sunwise										SW170										For Vmp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK									
Module Model		SW170										170.0 W										orange is acceptable but should be avoided where possible (inverter will hold at 330VDC), purple is OK but indicates inverter will limit to 95 kW AC continuous output (pink is acceptable but should be avoided where possible (inverter will not run above 600VDC) (note that NEC 690 prohibits system voltage to exceed 600VDC))									
Voltage @ MPP (STC)		36.25 VDC										148.9 W																			
Current @ MPP (STC)		4.69 ADC										Temp Coeff of Vmp																			
Current, short circuit		5.15 ADC										Temp Coeff of Voc																			
OCV @ 25 deg C cells		43.9 VDC										NOCT (nom. cell temp)										49 deg C									
Modules total in array		cold climates only and 5% low voltage tap recommended																													
Modules per string		11 11 11 11 11 11 11 11 11 11										336 432 480 600 624 708 338 442 468 598 624 715																			
Strings in Parallel		30 40 44 55 58 65 28 36 40 50 52 59 26 34 36 46 48 55																													
Voltage @ MPP (STC)		398.8 398.8 398.8 398.8 398.8 398.8 398.8 398.8 398.8 398.8										435.0 435.0 435.0 435.0 435.0 435.0 435.0 435.0 435.0 435.0										435.0 435.0 435.0 435.0 435.0 435.0 435.0 435.0 435.0 435.0									
Vmp @ max amb temp (30C, 86F amb)		336.3 336.3 336.3 336.3 336.3 336.3 336.3 336.3 336.3 336.3										366.9 366.9 366.9 366.9 366.9 366.9 366.9 366.9 366.9 366.9										366.9 366.9 366.9 366.9 366.9 366.9 366.9 366.9 366.9 366.9									
Vmp @ max amb temp (35C, 95F amb)		327.1 327.1 327.1 327.1 327.1 327.1 327.1 327.1 327.1 327.1										356.8 356.8 356.8 356.8 356.8 356.8 356.8 356.8 356.8 356.8										356.8 356.8 356.8 356.8 356.8 356.8 356.8 356.8 356.8 356.8									
Vmp @ max amb temp (40C, 104F amb)		317.9 317.9 317.9 317.9 317.9 317.9 317.9 317.9 317.9 317.9										346.8 346.8 346.8 346.8 346.8 346.8 346.8 346.8 346.8 346.8										346.8 346.8 346.8 346.8 346.8 346.8 346.8 346.8 346.8 346.8									
Vmp @ max amb temp (45C, 113F amb)		308.7 308.7 308.7 308.7 308.7 308.7 308.7 308.7 308.7 308.7										336.8 336.8 336.8 336.8 336.8 336.8 336.8 336.8 336.8 336.8										336.8 336.8 336.8 336.8 336.8 336.8 336.8 336.8 336.8 336.8									
Vmp @ max amb temp (50C, 122F amb)		299.6 299.6 299.6 299.6 299.6 299.6 299.6 299.6 299.6 299.6										326.8 326.8 326.8 326.8 326.8 326.8 326.8 326.8 326.8 326.8										326.8 326.8 326.8 326.8 326.8 326.8 326.8 326.8 326.8 326.8									
OCV @ 25 deg C cells		482.9 482.9 482.9 482.9 482.9 482.9 482.9 482.9 482.9 482.9										526.8 526.8 526.8 526.8 526.8 526.8 526.8 526.8 526.8 526.8										526.8 526.8 526.8 526.8 526.8 526.8 526.8 526.8 526.8 526.8									
OCV @ coldest temp (-40C, -40F amb)		583.9 583.9 583.9 583.9 583.9 583.9 583.9 583.9 583.9 583.9										637.0 637.0 637.0 637.0 637.0 637.0 637.0 637.0 637.0 637.0										637.0 637.0 637.0 637.0 637.0 637.0 637.0 637.0 637.0 637.0									
OCV @ coldest temp (-30C, -22F amb)		565.6 565.6 565.6 565.6 565.6 565.6 565.6 565.6 565.6 565.6										617.0 617.0 617.0 617.0 617.0 617.0 617.0 617.0 617.0 617.0										617.0 617.0 617.0 617.0 617.0 617.0 617.0 617.0 617.0 617.0									
OCV @ coldest temp (-20C, -4F amb)		547.2 547.2 547.2 547.2 547.2 547.2 547.2 547.2 547.2 547.2										596.9 596.9 596.9 596.9 596.9 596.9 596.9 596.9 596.9 596.9										596.9 596.9 596.9 596.9 596.9 596.9 596.9 596.9 596.9 596.9									
OCV @ coldest temp (-10C, 14F amb)		528.8 528.8 528.8 528.8 528.8 528.8 528.8 528.8 528.8 528.8										576.9 576.9 576.9 576.9 576.9 576.9 576.9 576.9 576.9 576.9										576.9 576.9 576.9 576.9 576.9 576.9 576.9 576.9 576.9 576.9									
OCV @ coldest temp (0C, 32F amb)		507.4 507.4 507.4 507.4 507.4 507.4 507.4 507.4 507.4 507.4										555.5 555.5 555.5 555.5 555.5 555.5 555.5 555.5 555.5 555.5										555.5 555.5 555.5 555.5 555.5 555.5 555.5 555.5 555.5 555.5									
Power @ MPP (STC)		4926										108460										108460									
PTC AC system power rating		6298										16037										16037									
Suggested Inverter		PVI 60KW PVI 82KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 95KW PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 95KW PVI 60KW PVI 82KW PVI 82KW PVI 95KW PVI 95KW PVI 95KW																													

Module Manufacturer: Trina Solar. Module Model: TSM-DC01 (175W). Voltage @ MPP (STC): 36.2 VDC. Current @ MPP (STC): 4.85 ADC. Power @ MPP: 175.0 W. For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK.

Module Manufacturer: Trina Solar. Module Model: TSM-DC01 (170W). Voltage @ MPP (STC): 35.8 VDC. Current @ MPP (STC): 4.76 ADC. Power @ MPP: 170.0 W. For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK.

Module Manufacturer: Trina Solar. Module Model: TSM-DC01 (165W). Voltage @ MPP (STC): 35.6 VDC. Current @ MPP (STC): 4.63 ADC. Power @ MPP: 165.0 W. For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK.

Module Manufacturer: Uni-Solar. Module Model: PVL144. Voltage @ MPP (STC): 33 VDC. Current @ MPP (STC): 4.36 ADC. Power @ MPP: 144.0 W. For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK.

Module Manufacturer: Uni-Solar. Module Model: PVL136. Voltage @ MPP (STC): 33 VDC. Current @ MPP (STC): 4.1 ADC. Power @ MPP: 136.0 W. For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK.

Module Manufacturer		Yingli Solar		Power @ MPP		220.0 W		* - PTC power rating not yet available	
Module Model		YL220 (156)		PTC Power Rating		0.0 W		For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Voltage @ MPP (STC)		29 VDC	29 VDC	Temp Coeff of Vmpp		0.135 V/degC	(Vmpp)	orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)	
Current @ MPP (STC)		7.59 ADC	7.59 ADC	Temp Coeff of Voc		0.135 V/degC	(Voc)	purple is OK but indicates inverter will limit to 95 kW AC continuous output	
Current, short circuit		8.15 ADC	8.15 ADC	NOCT (nom. cell temp)		46 deg C		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)	
OCV @ 25 deg C cells		36.5 VDC	36.5 VDC					(note that NEC 690 prohibits system voltage to exceed 600VDC)	
cold climates only and 5% low voltage tap recommended									
Modules total in array		224	280	308	336	364	392	420	448
Modules per string		14	14	14	14	14	14	14	14
Strings in Parallel		16	18	20	22	25	28	31	34
Voltage @ MPP (STC)		406.0	406.0	406.0	406.0	406.0	406.0	406.0	406.0
Vmpp @ max amb temp (30C, 86F amb)		347.4	347.4	347.4	347.4	347.4	347.4	347.4	347.4
Vmpp @ max amb temp (35C, 95F amb)		338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0
Vmpp @ max amb temp (40C, 104F amb)		329.5	329.5	329.5	329.5	329.5	329.5	329.5	329.5
Vmpp @ max amb temp (45C, 113F amb)		319.1	319.1	319.1	319.1	319.1	319.1	319.1	319.1
Vmpp @ max amb temp (50C, 122F amb)		309.6	309.6	309.6	309.6	309.6	309.6	309.6	309.6
OCV @ 25 deg C cells		511.0	511.0	511.0	511.0	511.0	511.0	511.0	511.0
OCV @ coldest temp (-40C, -40F amb)		633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9
OCV @ coldest temp (-30C, -22F amb)		615.0	615.0	615.0	615.0	615.0	615.0	615.0	615.0
OCV @ coldest temp (-20C, -4F amb)		596.1	596.1	596.1	596.1	596.1	596.1	596.1	596.1
OCV @ coldest temp (-10C, 14F amb)		577.2	577.2	577.2	577.2	577.2	577.2	577.2	577.2
OCV @ coldest temp (0C, 32F amb)		558.3	558.3	558.3	558.3	558.3	558.3	558.3	558.3
Power @ MPP (STC)		4928.0	5540.0	6160.0	6760.0	7360.0	7960.0	8560.0	9160.0
PTC AC system power rating		0	0	0	0	0	0	0	0
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW

Module Manufacturer		Yingli Solar		Power @ MPP		215.0 W		* - PTC power rating not yet available	
Module Model		YL215 (156)		PTC Power Rating		0.0 W		For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Voltage @ MPP (STC)		29 VDC	29 VDC	Temp Coeff of Vmpp		0.133 V/degC	(Vmpp)	orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)	
Current @ MPP (STC)		7.41 ADC	7.41 ADC	Temp Coeff of Voc		0.133 V/degC	(Voc)	purple is OK but indicates inverter will limit to 95 kW AC continuous output	
Current, short circuit		8.1 ADC	8.1 ADC	NOCT (nom. cell temp)		46 deg C		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)	
OCV @ 25 deg C cells		36 VDC	36 VDC					(note that NEC 690 prohibits system voltage to exceed 600VDC)	
cold climates only and 5% low voltage tap recommended									
Modules total in array		210	252	294	336	378	420	462	504
Modules per string		14	14	14	14	14	14	14	14
Strings in Parallel		15	18	21	24	27	30	33	36
Voltage @ MPP (STC)		406.0	406.0	406.0	406.0	406.0	406.0	406.0	406.0
Vmpp @ max amb temp (30C, 86F amb)		348.3	348.3	348.3	348.3	348.3	348.3	348.3	348.3
Vmpp @ max amb temp (35C, 95F amb)		339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0
Vmpp @ max amb temp (40C, 104F amb)		329.7	329.7	329.7	329.7	329.7	329.7	329.7	329.7
Vmpp @ max amb temp (45C, 113F amb)		320.3	320.3	320.3	320.3	320.3	320.3	320.3	320.3
Vmpp @ max amb temp (50C, 122F amb)		311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0
OCV @ 25 deg C cells		504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0
OCV @ coldest temp (-40C, -40F amb)		625.0	625.0	625.0	625.0	625.0	625.0	625.0	625.0
OCV @ coldest temp (-30C, -22F amb)		606.4	606.4	606.4	606.4	606.4	606.4	606.4	606.4
OCV @ coldest temp (-20C, -4F amb)		587.8	587.8	587.8	587.8	587.8	587.8	587.8	587.8
OCV @ coldest temp (-10C, 14F amb)		569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2
OCV @ coldest temp (0C, 32F amb)		550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6
Power @ MPP (STC)		4515.0	5418.0	6321.0	7224.0	8127.0	9030.0	9933.0	10836.0
PTC AC system power rating		0	0	0	0	0	0	0	0
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW

Module Manufacturer		Yingli Solar		Power @ MPP		175.0 W		* - PTC power rating not yet available	
Module Model		YL175		PTC Power Rating		0.0 W		For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Voltage @ MPP (STC)		23 VDC	23 VDC	Temp Coeff of Vmpp		0.107 V/degC	(Vmpp)	orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)	
Current @ MPP (STC)		7.61 ADC	7.61 ADC	Temp Coeff of Voc		0.107 V/degC	(Voc)	purple is OK but indicates inverter will limit to 95 kW AC continuous output	
Current, short circuit		8.2 ADC	8.2 ADC	NOCT (nom. cell temp)		46 deg C		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)	
OCV @ 25 deg C cells		29 VDC	29 VDC					(note that NEC 690 prohibits system voltage to exceed 600VDC)	
cold climates only and 5% low voltage tap recommended									
Modules total in array		255	306	357	408	459	510	561	612
Modules per string		17	17	17	17	17	17	17	17
Strings in Parallel		15	18	21	24	27	30	33	36
Voltage @ MPP (STC)		391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0
Vmpp @ max amb temp (30C, 86F amb)		334.6	334.6	334.6	334.6	334.6	334.6	334.6	334.6
Vmpp @ max amb temp (35C, 95F amb)		325.5	325.5	325.5	325.5	325.5	325.5	325.5	325.5
Vmpp @ max amb temp (40C, 104F amb)		316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4
Vmpp @ max amb temp (45C, 113F amb)		307.3	307.3	307.3	307.3	307.3	307.3	307.3	307.3
Vmpp @ max amb temp (50C, 122F amb)		298.2	298.2	298.2	298.2	298.2	298.2	298.2	298.2
OCV @ 25 deg C cells		493.0	493.0	493.0	493.0	493.0	493.0	493.0	493.0
OCV @ coldest temp (-40C, -40F amb)		611.2	611.2	611.2	611.2	611.2	611.2	611.2	611.2
OCV @ coldest temp (-30C, -22F amb)		593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
OCV @ coldest temp (-20C, -4F amb)		574.9	574.9	574.9	574.9	574.9	574.9	574.9	574.9
OCV @ coldest temp (-10C, 14F amb)		556.7	556.7	556.7	556.7	556.7	556.7	556.7	556.7
OCV @ coldest temp (0C, 32F amb)		538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
Power @ MPP (STC)		4462.5	5355.0	6247.5	7140.0	8032.5	8925.0	9817.5	10710.0
PTC AC system power rating		0	0	0	0	0	0	0	0
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW

Module Manufacturer		Yocaso		Power @ MPP		215.0 W		* - PTC power rating not yet available	
Module Model		PCA215-A01		PTC Power Rating		0.0 W		For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Voltage @ MPP (STC)		25.9 VDC	25.9 VDC	Temp Coeff of Vmpp		0.122 V/degC	(Vmpp)	orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)	
Current @ MPP (STC)		8.31 ADC	8.31 ADC	Temp Coeff of Voc		0.122 V/degC	(Voc)	purple is OK but indicates inverter will limit to 95 kW AC continuous output	
Current, short circuit		8.77 ADC	8.77 ADC	NOCT (nom. cell temp)		46 deg C		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)	
OCV @ 25 deg C cells		33 VDC	33 VDC					(note that NEC 690 prohibits system voltage to exceed 600VDC)	
cold climates only and 5% low voltage tap recommended									
Modules total in array		225	255	285	330	375	420	465	495
Modules per string		15	15	15	15	15	15	15	15
Strings in Parallel		15	17	19	22	25	28	31	33
Voltage @ MPP (STC)		388.5	388.5	388.5	388.5	388.5	388.5	388.5	388.5
Vmpp @ max amb temp (30C, 86F amb)		331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8
Vmpp @ max amb temp (35C, 95F amb)		322.6	322.6	322.6	322.6	322.6	322.6	322.6	322.6
Vmpp @ max amb temp (40C, 104F amb)		313.5	313.5	313.5	313.5	313.5	313.5	313.5	313.5
Vmpp @ max amb temp (45C, 113F amb)		304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3
Vmpp @ max amb temp (50C, 122F amb)		295.2	295.2	295.2	295.2	295.2	295.2	295.2	295.2
OCV @ 25 deg C cells		495.0	495.0	495.0	495.0	495.0	495.0	495.0	495.0
OCV @ coldest temp (-40C, -40F amb)		614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0
OCV @ coldest temp (-30C, -22F amb)		595.7	595.7	595.7	595.7	595.7	595.7	595.7	595.7
OCV @ coldest temp (-20C, -4F amb)		577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4
OCV @ coldest temp (-10C, 14F amb)		559.1	559.1	559.1	559.1	559.1	559.1	559.1	559.1
OCV @ coldest temp (0C, 32F amb)		540.8	540.8	540.8	540.8	540.8	540.8	540.8	540.8
Power @ MPP (STC)		4837.5	5482.5	6127.5	7095.0	8062.5	9030.0	9997.5	10965.0
PTC AC system power rating		0	0	0	0	0	0	0	0
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW

Module Manufacturer		Yocaso		Power @ MPP		210.0 W		* - PTC power rating not yet available	
Module Model		PCA210-A01		PTC Power Rating		0.0 W		For Vmpp @ max amb temp and OCV @ coldest temperature, green is OK, red is not OK	
Voltage @ MPP (STC)		25.8 VDC	25.8 VDC	Temp Coeff of Vmpp		0.122 V/degC	(Vmpp)	orange is acceptable but should be avoided where possible (inverter will hold at 330VDC)	
Current @ MPP (STC)		8.14 ADC	8.14 ADC	Temp Coeff of Voc		0.122 V/degC	(Voc)	purple is OK but indicates inverter will limit to 95 kW AC continuous output	
Current, short circuit		8.74 ADC	8.74 ADC	NOCT (nom. cell temp)		46 deg C		pink is acceptable but should be avoided where possible (inverter will not run above 600VDC)	
OCV @ 25 deg C cells		32.9 VDC	32.9 VDC					(note that NEC 690 prohibits system voltage to exceed 600VDC)	
cold climates only and 5% low voltage tap recommended									
Modules total in array		225	255	285	330	375	420	465	495
Modules per string		15	15	15	15	15	15	15	15
Strings in Parallel		15	17	19	22	25	28	31	33
Voltage @ MPP (STC)		387.0	387.0	387.0	387.0	387.0	387.0	387.0	387.0
Vmpp @ max amb temp (30C, 86F amb)		330.3	330.3	330.3	330.3	330.3	330.3	330.3	330.3
Vmpp @ max amb temp (35C, 95F amb)		321.1	321.1	321.1	321.1	321.1	321.1	321.1	321.1
Vmpp @ max amb temp (40C, 104F amb)		312.0	312.0	312.0	312.0	312.0	312.0	312.0	312.0
Vmpp @ max amb temp (45C, 113F amb)		302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8
Vmpp @ max amb temp (50C, 122F amb)		293.7	293.7	293.7	293.7	293.7	293.7	293.7	293.7
OCV @ 25 deg C cells		493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5
OCV @ coldest temp (-40C, -40F amb)		612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5
OCV @ coldest temp (-30C, -22F amb)		594.2	594.2	594.2	594.2	594.2	594.2	594.2	594.2
OCV @ coldest temp (-20C, -4F amb)		575.9	575.9	575.9	575.9	575.9	575.9	575.9	575.9
OCV @ coldest temp (-10C, 14F amb)		557.6	557.6	557.6	557.6	557.6	557.6	557.6	557.6
OCV @ coldest temp (0C, 32F amb)		539.3	539.3	539.3	539.3	539.3	539.3	539.3	539.3
Power @ MPP (STC)		4725.0	5355.0	5985.0	6930.0	7875.0	8820.0	9765.0	10710.0
PTC AC system power rating		0	0	0	0	0	0	0	0
Suggested Inverter		PVI 60KW	PVI 60KW	PVI 60KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW	PVI 82KW

