

1,2,3,6,10,20 kVA single/single-phase and three/single-phase



- **HIGH POWER INTENSITY**
- **STRONGEST PERFORMANCE**
- + FLEXIBILITY
- + HIGH EFFICIENCY WITH LOW HEAT DISSIPATION
- **EXTENDABLE AUTONOMY**



Smart Energy Solutions

Product Overview



AREA OF APPLICABILITY:

- **SERVERS**
- **INTERNET CENTERS**
- INDUSTRIAL APPLICATION
- **EMERGENCY DEVICES***
- MEDICAL DEVICES*

ZP120N UPS model is designed to deliver clean, safe and regulated power, thus protecting your equipment and data from line disturbances such as power surges, blackouts and lightning.

The ZP120N UPS is available the following power capacities: 1kVA to 3kVA 1/1; 6kVA - 10kVA 1/1 (single phase input and output) and 10kVA 3/1 and 20kVA 3/1 (three phase input and single phase output).

HIGH POWER INTENSITY

- DSP technology
- Self monitoring and fault diagnosis
- Dual communication bus
- Low output voltage distortion

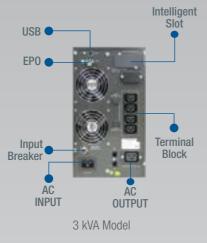
STRONGEST PERFORMANCE

- Wide input voltage range
- 0.9 output power factor
- Input power factor correction and negligible current distortion

FLEXIBILITY

- Selectable configuration via LCD: Online, Ecomode, Frequency/ Voltage Converter mode (VCF)
- EPO connector for emergency power shutdown
- Standard external battery connector
- Easy installation

* Some Medical and emergency devices have specific standard, so please check them before offer/install UPS



VOL7	WARNINGFAULT 88			
LOW				
ARRY	BREV RO	DECENT OF		
889 A	888 A 80	BBEA SO		
CONTRACTOR OF	BE HL TO	SS Ha TA		
BATTERY PN	MAINS 12	OUTPUT		

Display for ZP120N 1 kVA - 3KVA

MENU: 1. OPERATION MODE 2. MIMIC **3. SETTINGS** 4.STATUS/ALABM CODE

5. INPUT MEASURES 6. BATTERY CAPACITY 7. OUTPUT MEASURES



functions of the UPS: MENU: 1. INPUT DATA 2. OPERATING STATUS **3. BATTERY INFORMATION**

HIGHER PERFORMANCE

- DSP technology
- Multi-language LCD
- Log
- Dual communication bus Lower noise level

HIGH POWER INTENSITY

- 0,9 Output power factor
- Minimum acceptable input voltage 110 Vac

The 10 - 20 kVA have the same technical performance of ZP120N 6 kVA and it presents the following advantages:

- Input voltage autosensing (3ph or 1ph)
- •Large cabinet for better battery capacity
- Dual inputs with separate bypass line as standard



Power Management

4. LOAD INFORMATION 5. OUTPUT INFO

ZP120N

Interface Options

- Power flow display for UPS status monitoring
- Scheduled system shutdown/restart
- Scheduled UPS tests
- Warnings notification via Email/Pager
- Warnings notification via Broadcast
- Security password protection
- Remote Monitoring / Control via LAN
- Multi-language versions: English, German, French, Italian, Spanish, Portuguese and Chinese
- Selectable user interface
- UPS parameters setting
- Recorded log analysis
- The SNMP card allows UPS management across LAN using the main TCP/IP network communication protocols



AS 400 RELAY CARD



MODBUS INTERFACE



SNMP CARD

Communication Solutions

Win Power CD comes together with UPS, which can also be downloaded from the Internet.

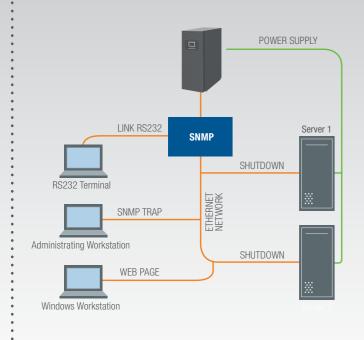
- With this software is possible to:
- Remotely monitor and control the UPS
- Send alarm signals to the mobile phone
- Perform automatic shutdown of PC / server
- Schedule UPS self-test programs

This software provides complete protection to your system during power failure.

It supports most of the operating systems including Windows, Linux, 7/8/9 Sun Solaris, FreeBSD, IBM Aix 4.3x, 5.1x, and HP-UX 11.x. In addition to this, to increase the benefits to our customers, we have released a version for MAC downloadable from the Internet.



Direct connection with Ethernet Network



Green Technology

ZP120N series guarantees high performance and a high efficiency with a low heat dissipation.

Extremely flexible to use, the ZP120N are designed with high power density and its standard configuration has already on board installed batteries ready for use.

Moreover ZP120N has battery terminal for connection of external battery cabinet for longer backup time. They could be use in several modes like:

guaranteed by the PFC input

Technical Specifications

MODEL	ZP120N-1K	ZP120N-1K-KS*	ZP120N-2K	ZP120N-2K-KS*	ZP120N-3K	ZP120N-3K-KS*	
Power Rating	1000V/	A/900W	2000VA	/1800W	3000V/	A/2700W	
			INP	UT			
Rated Voltage	220Vac/230Vac/240Vac						
Voltage Tolerance			110Vac	-300Vac			
Voltage Range - Line Low Transfer	-	176Vac/165Vac/110Vac (± 3%) based on load percentage 100%/75%/50%					
Voltage Range - Line High Transfer		300Vac (± 3%)					
Frequency Range	45-55Hz / 54-66Hz						
THDi %		<5% with full load					
Power Factor			≥0.99 (I/P:220V,	FULL RCD LOAD)			
			OUTI	PUT			
Rated Voltage		200	AC**/208VAC**/22	20VAC/230VAC/24	OVAC		
Voltage Regulation			± 2	2 %			
Rated Frequency AC Mode			50/60 H	z±0,2 %			
Crest Ratio			3	:1			
Harmonic Distortion		< 3% THD, linear load					
Output Waveform		Pure Sinewave					
Overload Capability	10	105%-110%: 1 min; 110%-125%: 30 sec ; 125%-150%: 10 Sec; >150%: 1 sec					
Parallel			N	/A			
Power Factor			0	.9			
			BATTE	RIES			
Туре		Se	aled lead acid bat	ery, maintenance f	ree		
Rating	12V/7Ah	According to	12V/7Ah	According to capacity of external batteries	12V/7Ah	According to capacity of external batteries	
Number of batteries	3	capacity of external	8		8		
Back-up Time (typical load)***	>10 minutes	batteries	>18 minutes		>10 minutes		
DC Voltage	36	Vdc	96	SVdc 96Vdc			
Charging Time		< 5 hours					
			GENERAL CHAR	RACTERISTICS			
Transfer Time (Inverter to bypass)		0 ms					
Efficiency (online mode)	88	88%		88%		88%	
Dimensions WxHxD (mm)	145x220x400		192x3	47x460	192x347x460		
Net Weight (kg)	13	7	31	13	31	13	
Operating Temperature			0°C ~	40 °C			
Noise Level (at 1m)		< 50dB			< 55dB		
Humidity Tolerance	0-95% (no condensing)						
Interface standard via Smart USB	WinPower Software supports: Windows 95/98/NT/2000/XP/ME, Linux, Sun Solaris, IBM Aix, FreeBSD, HP-UX, and MAC						
Interface for Intelligent Slot		SN	IMP / RS485 / A	S400 Card/ ModB	us		
Compliance	 European Directives: L V 2006/95/CE Low voltage directive; EMC 2004/108/EC Electromagnetic compatibility directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2 Classification according to IEC 62040-3 (Voltage Frequency Independent) VFI - SS - 111 						

* ks versions are supplied with extra battery charger

- ** Derate to 90% with 208Vac output voltage.
- *** The autonomy time are calculated at 75% rated load as PF=0.9.

Note: product specifications are subject to change without further notice

: ZP120N

Technical Specifications

MODEL	ZP120N-6K	ZP120N-6K-KS*	ZP120N-10K-11	ZP120N -10K-11-KS*		
Power Rating	6000\	/A/5400W	10000	VA/9000W		
	INPUT					
Rated Voltage	220Vac/230Vac/240Vac					
Voltage Tolerance	110Vac-276Vac					
Voltage Range - Line Low Transfer	176Vac/110Vac (± 3%) based on load percentage 100%/50%					
Voltage Range - Line High Transfer	276Vac (± 3%)					
Frequency Range		45-55Hz / 54-66Hz				
THDi %	<5% with full load					
Power Factor		≥0.99 (I/P:220V, F	ULL RCD LOAD)			
		OUTP	UT			
Rated Voltage		200VAC**/208VAC**/22	OVAC/230VAC/240VAC			
Voltage Regulation		± 1	%			
Rated Frequency AC Mode		50/60 Hz	± 0,2 %			
Crest Ratio		3:	1			
Harmonic Distortion		< 2% THD,	linear load			
Output Waveform	Pure Sinewave					
Overload Capability	100%-110)%: 5 min ; 110%-130%: 1 mir	r; 130%-150%: 10 sec;	>150%: 2 sec		
Parallel	Up to 4					
Power Factor	0.9					
		BATTE	RIES			
Туре		Sealed lead acid batte	ery, maintenance free			
Rating	12V/7Ah		12V/9Ah			
Number of batteries	20	According to capacity of external batteries	20	According to capacity of external batteries		
Back-up Time (typical load)***	> 10 minutes		>10 minutes			
DC Voltage	240Vdc					
Charging Time	< 5 hours					
		GENERAL CHAR	ACTERISTICS			
Transfer Time (Inverter to bypass)	0 ms					
Efficiency (online mode)	>92%					
Dimensions WxHxD (mm)		260x56	0x708			
Net Weight (kg)	86	34	92	37		
Operating Temperature		0°C ~	45 °C	1		
Noise Level (at 1m)	<50dB <55d			55dB		
Humidity tolerance	0-95% (no condensing)					
Interface standard via Smart USB	WinPower Software supports: Windows 95/98/NT/2000/XP/ME, Linux, Sun Solaris, IBM Aix, FreeBSD, HP-UX, and MAC					
Interface for Intelligent Slot		SNMP / RS485 / AS	400 Card/ ModBus			
Compliance	tibility directive • Standards: Safety IEC	V 2006/95/CE Low voltage di EN 62040-1; EMC IEC EN 620 g to IEC 62040-3 (Voltage Free	040-2 C3			

* ks versions are supplied with extra battery charger ** Derate to 90% with 208Vac output voltage. *** The autonomy time are calculated at 75% rated load as PF=0.9.

Note: product specifications are subject to change without further notice

6

MODE	L	ZP120N-10K-31C	ZP120N-10K-31C-KS*	ZP120N-10K-31	ZP120N-10K-31-KS*	ZP120N-20K-31	ZP120N-20K-31-KS	
Power I	Rating		10000V	A/9000W		20000VA	/18000W	
				INP	UT			
Rated Voltage		220VAC/230VAC/240VAC 1ph or 380/400/415 3ph (autosensing)				220VAC/230VAC/240VAC 1p or 380/400/415 3ph (autosen sing)		
1 phase	Voltage Tolerance	11	0Vac-176Vac(*) -	110Vac-276Vac				
	Voltage Range - Line Low Transfer			176Vac/110Vac (± 3%) base on load percentage 100%/50				
	Voltage Range - Line High Transfer			276Vac (± 3%)				
	Voltage Tolerance	190Vac-304Vac(**) -478Vac (±1%) 3 Phase				190Vac-478Vac		
3 phase	Voltage Range - Line Low Transfer					305Vac/190Vac (± 3%) base on load percentage 100%/50		
	Voltage Range - Line High Transfer					478Vac	: (± 3%)	
Freque	ncy Range			45-55Hz	/ 54-66Hz			
THDi %	,)	<5% with full load						
Power I	Factor			≥0.99 (FU	ILL LOAD)			
		·		OUTF	PUT			
Rated \	Voltage		200\	/AC**/208VAC**/22	0VAC/230VAC/24	IOVAC		
Voltage	Regulation			± 1	%			
Rated I	Frequency AC Mode	50/60 Hz ± 0,2 %						
Crest Ratio		3:1						
Harmoi	nic Distortion	< 2% THD, linear load						
Output	Waveform	Pure Sinewave						
Overload Capability		100%-110%: 5 min; 110%-130%: 1 min ; 130%-150%: 10 sec; >150%: 2 sec						
Power	Factor	0.9						
Parallel		Up to 4						
				BATTE	RIES			
Туре		Sealed lead acid battery, maintenance free						
Rating		12V/9Ah		12V/7Ah		12V/7Ah		
	ers of batteries	20	According to	24+24 optional	According to capacity	24+24 optional	According to capacity	
	up Time (typical load)***	> 10 minutes	capacity of external batteries	> 6 minutes + 6 minutes optional	of external batteries	> 6 minutes + 6 minutes optional	of external batteries	
DC Vol	tage	240	Vdc	288Vdc 288Vdc		Vdc		
Chargir	ng Time			< 5 h	nours			
		1		GENERAL CHAP	RACTERISTICS			
Transfer	r Time (Inverter to bypass)		0 ms					
Efficien	cy (online mode)	>92	2%	>9	3%	>9	2%	
Dimens	sions WxHxD (mm)		260x7	08x560		350x89	90x650	
Net We	eight (kg)	93	38	1	75	160	53	
	ing Temperature				45 °C	1		
	_evel (at 1m)	<55	idB	<55dB	<55dB	<55	ōdB	
Humidi	ty Tolerance	0-95% (no condensing)						
Interfac	ce standard via Smart USB	WinPower Software supports: Windows 95/98/NT/2000/XP/ME, Linux, Sun Solaris, IBM Aix, FreeBS HP-UX, and MAC					ivi Aix, FreeBSI	
Interfac	ce for Intelligent Slot	SNMP / RS485 / AS400 Card/ ModBus						
Complia	ance	 European Directives: L V 2006/95/CE Low voltage directive; EMC 2004/108/EC Electromagnetic compatibility directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2 C3 Classification according to IEC 62040-3 (Voltage Frequency Independent) VFI - SS - 111 						

Note: product specifications are subject to change without further notice



Technical Specifications

G-Tec Service

G-TEC Service, our technical assistance facility, employs highly trained engineers able to provide a reliable sales assistance service.

A dedicated **CALL CENTRE** for connection to the G-TEC Service organisation. G-TEC Service personnel are always on hand and happy to provide advice and assistance regarding the installation, maintenance, fault finding and repair of UPS equipment.

G-TEC Service can provide assistance during commissioning and start-up of the UPS equipment on-site with additional training of site personnel during handover.

MAINTENANCE CONTRACTS can be provided by G-TEC Service Partners to minimise response times and reduce the cost of

 repairs. Contracts range from periodic inspections to comprehensive cover including labour and materials.

FAST & READY: fast repair on site is guaranteed thanks to the use of state-of-theart UPS technology and the professionalism of the G-TEC Service personnel and Authorised Assistance Centres.

G-TEC Service guarantees that failed parts are replaced with original ones and are tested and updated in order to maintain the safety, reliability and operating characteristics of the UPS system.

www.gtec-power.eu

G-Tec Europe srl

Strada Marosticana, 81/13 36031 Povolaro (VI), Italia Tel. +39 0444.361321 - Fax +39 0444.365191 info@gtec-power.eu

G-Tec France france@gtec-power.eu



Rev. 27/01/201