JMCC WING Farm & Ranch, LLC 1 2 5 & 10KW

Multi Blade Wind Systems

Company: JMCC WING - Farm & Ranch, LLC Wilmington, DE 19801

Email: jmcc@jmccannneyscience.com

Prices available on request -



Wo only sell complete systems (see photos below). There are other expenses that you will incur. Some may be local to vour location (see list at bottom for more details). Product colors and form factors may alter from photos below.

Prices may	change due	to variables
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Require physical ship to address Controller

We sell complete systems only

Inverter

For use with Lead Acid or GEL 1 & 2 kW systems 14 days Deep Cycle Batteries ONLY

5 & 10 kW systems 4 weeks

kW

Description - Multi Blade Gen

1 kW

Product model 1 kW Multi Blade Started wind speed 2.5 m/s Rated wind speed 11 m/s Rated voltage 24V Rated power 1000W Max power 1200W Rotor Diameter of Blades 2.15m Blades Height 1.05m

Blades quantity 3pcs

Blade material: aluminum alloy casting Generator: 3 phase AC perm mag gen Approx. Net Weight: 24 kg

Wind Turbine Recovery 27V Note: this simple controller is for wind speed below 12m/s this is a light duty wind system for small home applications

Product model 24VDC-Controller

Rated Battery Voltage 24V

Wind Turbine Shutoff 30V

Wind Turbine Input Pwr 1KW

Allow input voltage range $120 \text{ VAC} \pm 15\%$ Frequency 60Hz Net weight 12kg

Product model 1kW - Inverter Input rated voltage 24VDC

System Cost: \$2900 Shipping (est): \$560

State Tax (est 6%) \$174

Estimated Total: \$3634

See List of additional Exp's

BATTERIES and TOWER POLE NOT INCLUDED



2 kW

Product model 2 kW Multi Blade Started wind speed 2.5 m/s Rated wind speed 11 m/s Rated voltage 48V Rated power 2000W Max power 2200W Rotor Diameter of Blades 2.8m Blades Height 1.35m

Blades quantity 3pcs

Blade material: aluminum alloy casting Generator: 3 phase AC perm mag gen Approx. Net Weight: 48 kg

Product model 2KW 48V Battery Voltage 48V Wind Turbine Input Power 2KW Solar input: 600w PWM stepless upload mode LCD display with all data Wind turbine auto and manual brake this is a light duty wind system for

BATTERIES and TOWER POLE NOT INCLUDED

small home applications



Product model 2 kW - Inverter Input rated voltage 48VDC Allow input voltage range 120 VAC ± 15% Frequency 60Hz Net weight approx. 18 kg with By-pass function allows backup generator to operate

System Cost: \$4500 Shipping (est): \$860 State Tax (est 6%) \$270

Estimated Total: \$5630

See List of Additional Exp's

Brochure JMCC WING Farm & Ranch, LLC **5 KW**

Multi Blade Wind Systems

Company: JMCC WING - Farm & Ranch, LLC Wilmington, DE 19801

Email: jmcc@jmccannneyscience.com

Prices may change due to variables



We sell complete systems only (see photos below). There are other expenses that you will incur. Some may be local to vour location (see list at bottom for more details). Product colors and form factors may alter from photos

Require physical ship to address

We sell complete systems only



MULTI BLADE GEN & **TOWER TOWER** OFF GRID ONLY

Blades diameter: XXXX(M) Rated rotor speed: 200(r/m) Rated wind speed:12(m/s)

Rated power:5KW Max power:10KW

Output voltage: 120V/240V Startup wind speed: 3(m/s) Work speed:3-30(m/s) Security wind speed:50(m/s) Generator shell material: cast iron

XXXXHeight of pole: 8m (also avail in 10/12/15m) Wall Thickness: 7mm Tower diameter: 219(mm) Flange: 320*320*16 (mm) Sections of tower: 3 Material: Q235 Steel pipe Surface treatment: anticorrosive

paint

This system is off grid but can be used with a "transfer switch" to change between grid and off grid power.







CONTROLLER/DMPLD/BATTERIES

Rated Wind Input: 5kW Rated PV (solar) Input Power: 3kW Battery Volt (adjustable): 120V/216VDC Floating Charge Volt: 140/252VDC Control Mode: PWM Display Method: LCD Display Parameter: Battery Voltage Charging Current, state parameter Cooling Method: Fan Protection Type: Solar panel reverse-charge protection / Solar panel reverse-connect protection / Battery reverse-connect protection / Battery open circuit protection / wind Inverting Efficiency: Max. 90% turbine automatic brake and Manual brake protection Extra Control function (optional): Yawing, variable pitch, mechanical brake, hydraulic brake,

electromagnetism brake *Communication interface (optional): RS485/USB/GPRS/WIFI/Ethernet Operation Ambient Temperature:

Operation Altitude: ≤4000m Operation Ambient Humidity: -30~+65 °C/35~85%RH,no condensing Size(WxHxD) mm: (Dumpload box)XXX×XXX×XXX (Control

box)XXXxXXXXXXX Weight kg: Dumpload XXXX /

Controller XXXX

Includes XXXX Batteries 200 Ah GEL

Additional Batteries order at \$450 each x XXXX = \$XXXX Additional



INVERTER

Rated Output Capacity: 5kw Rated Battery Voltage: 120/XXXVDC Over Voltage Point: XXX/XXXVDC Over Voltag Recovery Point: XXX/XXXXVDc Under Voltage Point: 105/189VDC

Under Voltag Recovery Point: XXX/XXXVDC No Load Loss: 0.4A Output Waveform: Pure Sine Wave Display Method: LCD Display Parameter: Battery Voltage, Output Voltage, State Cooling Method: Fan Rated Output Voltage: 110/120/220/230/240 VAC Total Harmonic Distortion: ≤4% Output Frequency: 50/60 Hz Dynamic Response: 5% Overload Ability: 120% one minute.150% 10 seconds Noise (1m) : ≤40dB Dielectric Strength: 1500VAC, 1 min Protection Type: Battery over voltage protection / Battery under voltage protection, Battery reverse-connect protection / Output over load protection. Output short circuit protection / Over temperature protection Operation Ambient Temperature: -30~60℃ Operation Altitude: ≤4000m Operation Ambient Humidity: 0~90%,no condensing

System Cost: \$XX,XXX Shipping (est): \$2500 State Tax (est 6%) \$0 Estimated Total: \$XX,XXX

Size(WxHxD)mm: XXXXXXXXX

Weight (KG): XXXX

5 kW

Brochure JMCC WING Farm & Ranch, LLC **10 KW Multi Blade Wind Systems**

Company: JMCC WING - Farm & Ranch, LLC

Wilmington, DE 19801

Email: jmcc@jmccannneyscience.com

Prices may change due to variables

Require physical ship to address

The following prices are for complete systems with photos below. There are other expenses that you will incur. Some may be local to your location (see list at bottom for more details). Product colors and form factors may alter from photos below.

We sell complete systems only



MULTI BLADE GEN THREE PIECE TOWER OFF GRID ONLY

Blades diameter: 6.2(M) Rated rotor speed: 100(r/m) or

/200(r/m)

Rated wind speed:12(m/s)

Rated power:10KW Max power:20KW

Output voltage:220V/120V/240V Startup wind speed: 3(m/s) Work speed:3-30(m/s) Security wind speed:50(m/s)

Generator shell material: cast iron

Height of pole: 8m (also avail in 10/12/15m) Wall Thickness: 7mm

Tower diameter: 219(mm) Flange: 320*320*16 (mm) Sections of tower: 3

Material: Q235 Steel pipe Surface treatment: anticorrosive

paint

This system is off grid but can be used with a "transfer switch" to change between grid and off grid power.







CONTROLLER/DMPLD/BATTERIES

Rated Wind Input: 10kW Rated PV (solar) Input Power: 3kW Battery Volt (adjustable): 120V/216VDC

Control Mode: PWM

Display Method: LCD

Display Parameter: Battery Voltage Charging Current, state parameter Cooling Method: Fan

Protection Type: Solar panel reverse-charge protection / Solar panel reverse-connect protection / Battery reverse-connect protection / Battery open circuit protection / wind turbine automatic brake and Manual brake protection

Extra Control function (optional): Yawing, variable pitch,

mechanical brake, hydraulic brake, electromagnetism brake

*Communication interface (optional): RS485/USB/GPRS/WIFI/Ethernet Operation Ambient Temperature:

30~70℃

Operation Altitude: ≤4000m Operation Ambient Humidity: -30~+65 ℃/35~85%RH,no condensing Size(WxHxD) mm: (Dumpload box)600x890x600 (Control box)440×210×380 Weight kg: Dumpload 59 /

Controller 10

Includes 18 Batteries 200 Ah GEL

Additional Batteries order at \$450 each x 18 = \$8000 Additional



INVERTER

Rated Output Capacity: 10kw Rated Battery Voltage: 120/216VDC Over Voltage Point: 170/306VDC Over Voltag Recovery Point: 165/297VDc

Under Voltage Point: 105/189VDC

Under Voltag Recovery Point: 120/216VDC

No Load Loss: 0.4A

Output Waveform: Pure Sine Wave

Display Method: LCD

Floating Charge Volt: 140/252VDC Display Parameter: Battery Voltage, Output Voltage, State

Cooling Method: Fan Rated Output Voltage: 110/120/220/230/240 VAC

Total Harmonic Distortion: ≤4% Output Frequency: 50/60 Hz Dynamic Response: 5%

Overload Ability: 120% one minute,150% 10 seconds

Inverting Efficiency: Max. 90% Noise (1m): ≤40dB

Dielectric Strength: 1500VAC, 1 min

Protection Type:

Battery over voltage protection / Battery under voltage protection.

Battery reverse-connect protection / Output over load protection

Output short circuit protection / Over temperature protection Operation Ambient Temperature: -

30~60℃

Operation Altitude: ≤4000m Operation Ambient Humidity: 0~90%,no condensing

Size(W×H×D)mm: $600 \times 890 \times 600$

Weight (KG): 93

System Cost: \$27,000 Shipping (est): \$2500 State Tax (est 6%) \$0

Estimated Total: \$29,500



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	Talk to us to spec		The 2, 5 & 10 kW controllers		
	The Multi Blade home system is an		also include an option to add		
	economical alternative to the industrial grade JMCC WING Generators. The Multi Blade systems		solar panels (solar panels not		
			included) – we sell batteries		
			and LP Diesel Generators also		
	-	in the smaller sizes	Multi Blade are OFF GRID only		
		are about 60% the	With Blade are OFF GRID Only		
		ent than the JMCC	See List of Additional Expenses		
		. If you have a good	that you may encuonter in your		
	wind area they are	e a good alternative.	installation (see #5 BELOW)		
1.)Method of Shipment		We will ship to the	e customer location by least ex	pensive method. Shipping cos	sts listed
		above are estimat	tes. We will give a final quote	when finalizing your order. W	e do not
			orices but pass them through to	- ·	
2.)Payment			,	•	our order
		By 100% WIRE or Electronic Check will start your order – Instructions given when you place your order Invoice quotes are good for 5 days from the time we issue you an invoice via email			
3.)Delive	ry Date	14 working days after	payment (estimate) – we are not response	onsible for shipping delays beyond ou	ır control.
4.)Remar	rks	This quotation was qu	ota with freight and tax validity time	e is 5 days from the date you receive in	nvoice.
		We provide instruct	ions to install. Customer is respor	nsible for installation. No returns of	or refunds,
		once you place your	r order it starts the process that imi	nediately ships and we cannot sto	p the order.
5.) Addit	ional Expenses		nclude the following items which you		
			eifications that you must follow to inst	• •	
			ectrical connections and comply with learning batteries, battery cables, LP or control	=	_
			bles for pole support, cement and bolts		
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_		Transportation / loc	cal licensed electrician / permits /	rental of machines such as teleha	indlers or
	cranes / installation team and related expenses / shipping container rental or purchase for large				
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