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WIND AND SOLAR CONTROLLER JN & JW Series

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Product Features:

- 1. The display is LCD designed, more comprehensive display information, display interface is clearer.4 button interface, operation setting is more convenient;
- 2. Photovoltaic and fan three-stage charging mode:CC constant charging-boost charging-floating charging.
- 3. 12V /24V/48V battery system automatic identification.
- 4. With overcharge, overdischarge, overload and other comprehensive protection functions.
- 5. Lead-acid battery, ternary lithium battery, lithium iron phosphate, custom four battery types of charging methods are optional.
- 6. A variety of load control methods, the load has two outputs, the output power and time can be set;
- 7. Extensive adaptable, adaptive day and night;
- 8. Fan charging has battery activation function.



Technical Parameters:

Parameter Name	Product model							
Model	JW-12- W300/S5 00	JW-12- W500/S6 00	JW-24- W600/S8 00	JW-24- W800/S10 00	JW-48- W800/S10 00	JW-48- W1000/S10 00	JW-48- W1200/S10 00	JW-48- W1500/S10 00
Battery system voltage level (V)	12		24		48			
PV array maximum open circuit voltage (V)	27.6		55.2		105			
Recovery Voltage after PV array maximum open circuit voltage (V)	26.4		52.8		100			
PV array minimum operating voltage (V)	>Vbat+1V		>Vbat+1V		>Vbat+1V			
Photovoltaic rated current rating (A)	40	50	33	40	21	21	21	21
PV module power (W)	≦ 500	≦ 600	≦ 800	≦ 1000	≦ 1000	≦ 1000	≦ 1000	≦ 1000
Fan rated voltage level (V)	12		24		48			
Fan array maximum open circuit voltage (V)	25.6		51.2		102.4			
Fan rated current(A)	25	40	25	33	17	21	25	31
Wind Turbine Power (W)	≦ 300	≦ 500	≦ 600	≦ 800	≦ 800	≦ 1000	≦ 1200	≦ 1500
Voltage of restriction charging (V)	Vbat>BCV+0.4V							
DC load output rated current(A) (LOAD1+LOAD2)	30A (Maximum one-way 15A)							
Remarks: 12V battery system: the maximum power of the fan is 500W, and the maximum power of the PV is 600W;								
24V battery system: the maximum power of the fan is 800W, and the maximum power of the PV is 1000W.								
48V battery system: the maximum power of the fan is 1500W, and the maximum power of the PV is 1000W.								

Over discharge and overload.protection;Battery protection; Reverse connection protection; Over voltage protection;Low voltage protection;Short circuit protection;

System application diagram



Product Features:

- 1. The display screen adopts color screen design, which displays more comprehensive information, has a clearer display interface, and is more MPT | Wind/Solar hybrid, convenient for key human-machine interface and operation settings.
- 2. The MPPT control algorithm used in wind turbine charging can ensure MPPT charging at low wind speeds.
- 3. Photovoltaic charging uses advanced MPPT maximum power point tracking technology, with a tracking efficiency of no less than 99.5%. Compared with ordinary PWM algorithms, the efficiency is increased by 15-20%.
- 4. RS485 communication, which can provide communication protocol to facilitate customers' unified integrated management and secondary development.
- 5. You can view and set the controller operating parameters through the mobile phone APP (optional).
- 6. With comprehensive protection functions such as overcharge, over discharge and overload.
- 7. Four battery types: lead-acid battery, ternary lithium battery, lithium iron phosphate, and custom charging methods are optional.
- 8. Various load control methods, output power and time can be set.
- 9. Widely adaptable, self-adapting to day and night.
- 10. The wind turbine charging has a battery activation function: When lithium batteries such as lithium iron phosphate or ternary lithium (must have BMS) are under voltage protection, they can be connected to the wind turbine/photovoltaic to activate the BMS battery pack to achieve normal charging.



Technical Parameters:

Dual-Channel MPPT Wind/Solar Hybrid Solar Charge Controller									
parameter name	Product number								
	JN-T-MPPT-W500/S800-12	JN-T-MPPT-W800/S800-12	JN-T-MPPT-W800/S1000-24	JN-T-MPPT-W1000/S1000-24	JN-T-MPPT-W1500/S1500-24	JN-T-MPPT-W800/S2000-48	JN-T-MPPT-W1000/S1500-48	JN-T-MPPT-W1500/S1500-48	JN-T-MPPT-W2000/S1500-48
Battery systemvoltage level	12		24			48			
Maximum open circuit voltage of photovoltaic array	100		145			145			
PV array maximum open circuit recover voltage	90		135			135			
Minimum operating voltage of photovoltaic array	20		40			70			
Photovoltaic rated current level	40	40	40	40	40	40	40	40	40
Photovoltaic module power	≤800	≤800	≤1000	≤1000	≤1500	≤2000	≤1500	≤1500	≤1500
Rated voltage level of fan	12		24			48			
Maximum open circuit voltage of fan	25.6		51.2			102.4			
Rated current of fan	25	30	30	30	30	30	30	30	30
Wind turbine power	≤500	≤800	≤800	≤1000	≤1500	≤800	≤1000	≤1500	≤2000
Charging limit voltage	Vbat>BCV+0.4V		Vbat>BCV+0.4V			Vbat>BCV+0.4V			
DC load output rated current	≤25		≤25			≤25			
Protection	Over discharge and overload.protection;Battery protection; Reverse connection protection; Over voltage protection;Low voltage protection;Short circuit protection;								
Protection Level	IP30								
Communication protocol	RS485,WIFI,GPRS Ethernet, RJ45 port. Provide APP for Remote monitoring and alert(optional)								
Load output quantity	1								
Working temperature	-20C° ~ +50C°								
Humidity	10~90% No condensation								
Note: 12V battery system: maximum power of turbine 800W, maximum power of photovoltaic 800W; 24V battery system: maximum power of turbine 1500W, maximum power of photovoltaic 1500W; 48v battery system: maximum power of turbine 3000w. maximum of photovoltaic 1500W; of maximum power of turbine 1500w. maximum power of photovoltaic 3000W; The machine is factory defaulted to 12V124V148V automatic identification, please do not exceed the corresponding maximum power									

System application diagram

