

EEWS Series

2000W Wind/Solar Hybrid Controller



Applications

- Independent wind power plant
- Independent household wind power generation system
- Power supply for those unmanned regions like mobile communication station, high way, the coastal islands, remote mountainous regions and border posts.
- Regional research projects, government demonstration projects, landscape lighting projects for those places with insufficient power or power shortages.

Features

- Can be applied to wind&solar hybrid off-grid system
- Several functions are optional, such as wind speed measure function, rotational speed control function and temperature compensation function.
- RS232/RS485/RJ45/GPRS/Bluetooth/Zigbee optional. (It can be monitored by app for those with GPRS/WIFI/Bluetooth connection)



Technical Parameters

Model	EEWS20-120	EEWS20-48
Wind Turbine Input		
Rated input power	2kW	
Rated input voltage	120Vdc	48Vdc
Input voltage range	0~160Vdc	0~64Vdc
Rated input current	17A	42A
Brake by hand	Keep press the button for 5s to unload completely, and then recover by hand.	
	Switch "ON" the brake switch	
Brake by over current	17A (factory default, 0~17A settable) unload completely when reached the set current, and recover automatically after working 10mins.	42A (factory default, 0~42A settable) unload completely when reached the set current, and recover automatically after working 10mins.
Brake by overvoltage	Refer to "output overvoltage" control	
Brake by over wind speed (optional)	18m/s (0-30m/s settable), unload completely when reached the set wind speed, and recover automatically after working 10mins.	
Brake by over rotational Speed (optional)	500r/min (factory default, 0~1000r/min settable) Unload completely when reached the set rotational speed, and recover automatically after working 10mins.	
PV Input		
Rated input power	600W	
Max. Open circuit voltage	240Vdc	96Vdc
Rated input current	5A	13A
Reversed connection protection	YES	YES
Charge Parameters		
Rated battery voltage	120Vdc	48Vdc

Temperature compensation function (optional)	-3mV/°C/2V	
Output Parameters		
Rated output voltage	120Vdc	
Output overvoltage point	145Vdc	
output overvoltage recovery point	it will recover automatically once it is lower than output overvoltage point.	
Max. Output current	17A	
General Parameters		
Rectifier mode	Uncontrolled rectifier	
Display mode	LCD	
Display information	DC output voltage, wind voltage/current/power, battery voltage, PV voltage/current/power.	
Monitoring mode (optional)	RS232/RS485/RJ45/GPRS/Bluetooth/Zigbee	
Monitoring Contents	DC output voltage, wind voltage/current/power, battery voltage, PV voltage/current/power.	
	parameter setting: output overvoltage point, wind overcurrent point and manual brake	
Lightning protection	YES	
Conversion efficiency	≥95%	
Static loss	<2W	<1W
Ambient temperature	-20°C ~ +40°C	
Humidity	0~90%, No condensing	
Noise	≤65dB	
Cooling mode	Natural cooling	
Installation mode	Wall-mounted	
Cover protection class	IP20	
Product dimension (W*H*D)	420×440×175 mm	
Product net weight	11.5kG	