EEWS Series

5000W Wind/Solar Hybrid Controller

ENGELEC ENERGY
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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	EEWS50-48	EEWS50-120	EEWS50-240
Wind Turbine Input			
Rated input power	5kW		
Rated input voltage	48Vdc	120Vdc	240Vdc
Input voltage range	0~64Vdc	0~160Vdc	0~320Vdc
Rated input current	105Adc	42Adc	21Adc
Brake by hand	Press button “Enter” “Esc” at the same time to unload completely. Then recover by hand.		
Brake by over current	105A (factory default, 0~105A 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.	21A (factory default, 0~21A 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)	14m/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 (optional)			
Rated input power	1500W		
Max. Open circuit voltage	96Vdc	240Vdc	480Vdc
Rated input current	32Adc	13Adc	7Adc

Reversed connection protection	YES		
Charge Parameters (optional)			
Rated battery voltage	48Vdc	120Vdc	240Vdc
Temperature compensation function (optional)	-3mV/℃/2V		
Output Parameters			
Rated output voltage	48Vdc	120Vdc	240Vdc
Output overvoltage point	58Vdc	145Vdc	290Vdc
Output overvoltage recovery point	Less than output overvoltage		
General Parameters			
Rectifier mode	Uncontrolled rectifier		
Display mode	LCD		
Display information	DC output voltage, wind turbine voltage/current/power/battery voltage and PV power/voltage/current		
Monitoring mode (optional)	RS232/RS485/RJ45/GPRS/Bluetooth/Zigbee		
Monitoring Contents	Real-time display:DC output voltage, wind turbine voltage/current/power/battery voltage and PV power/voltage/current		
	Parameter setting: Output overvoltage point, wind turbine over current point, and wind turbine brake settings.		
Lightning protection	YES		
Conversion efficiency	≥95%		
Static loss	＜5W	＜5W	＜5W
Ambient temperature	-20℃～+40℃		
Humidity	5%~95%, No condensing		

Noise	≤65dB	
Cooling mode	Natural cooling	
Installation mode	Wall-mounted	
Cover protection class	IP42	
Product dimension (W*H*D)	440×425×170 mm	440×305×170 mm
Product net weight	12kG	7.5kG
Dump load dimension(W*H*D)	730×390×190mm	
Dump load weight	19kG	
Note: the listed specs are just for your reference		

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