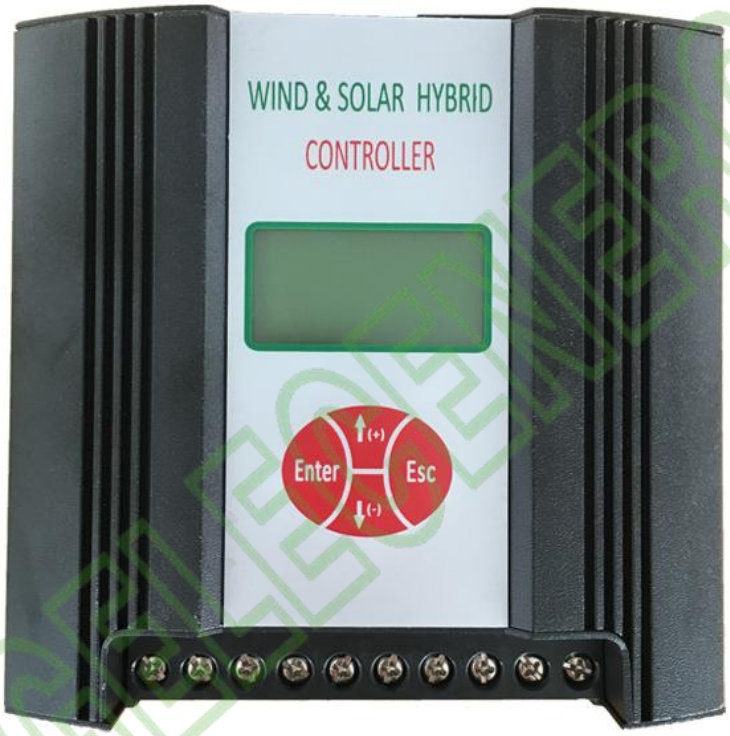
EESWS Series

400W Wind/solar Hybrid Controller



Applications

- 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

- Wind&Solar complementary controller in high quality.
- LCD Display. Easy setup.
- RS232/RS485/RJ45/GPRS /Bluetooth Optional (For those with GPRS/Bluetooth/RJ45 can also be monitored through App.)

Technical Parameters

Model	EESWS04-12
Wind Turbine Input	
Rated input power	400W
Rated input voltage	14Vdc
Input voltage range	0~16Vdc
Rated input current	34Adc
Brake by hand	Press button “Enter” “Esc” at the same time to unload completely. Then recover by hand.
Brake by over current	34A（factory default,0~34A 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 Parameters	
Rated input power	150W
Max. open circuit voltage	24V
Rated input current	13A

Reversed connection protection	YES
Charge Parameters	
Rated battery voltage	12V
Temperature compensation function(optional)	-3mV/℃/2V
Output Parameters	
Rated output voltage	12V
Start unload voltage	13.5V（factory default,11Vdc~16Vdc settable）
Complete unload voltage	14.5V(factory default, add 1V to the start unload voltage)
Max. Output current	34A
DC load output	
Output loops	2 loops
Output control mode	Both 2 loops could be set in 7 modes, such as light control on&off, light control on and time control off.
Output voltage range	10.8V~16V
Undervoltage recovery point	Refer to "rated battery voltage"
Rated output current	10A/each loop
Overload protection	120% rated DC output -1min,150% rated DC output -10s
Short circuit protection	200% rated DC output, instant protection
General Parameters	
Rectifier mode	Uncontrolled rectifier
Display mode	LCD
Display information	Battery voltage, wind turbine voltage/current/ power, PV power/voltage/current, light control-on voltage, light control-off voltage, time control duration, load current and so on.
Monitoring mode(optional)	RS232/RS485/RJ45/GPRS/Bluetooth/Zigbee

Monitoring Contents	Real-time display: Battery voltage, wind turbine voltage/current/ power, PV power/voltage/current, wind power generation capacity, solar power generation capacity, Battery status, wind turbine status, day and night, DC overload, DC load short circuit, and so on.
	Parameter setting: Output overvoltage point, wind turbine over current point, wind turbine start voltage, DC load overvoltage/undervoltage recovery point, output mode choice for two loops, light control on voltage, light control off voltage, and wind turbine brake settings.
Lightning protection	YES
Conversion efficiency	≥95%
Static loss	＜0.5W
Environment temperature	-20℃～+40℃
Humidity	5%~95%,No condensing
Noise	≤65dB
Cooling mode	Natural cooling
Installation mode	Wall-mounted
Cover protection class	IP52
Product dimension(W*H*D)	150×143×83mm
Product net weight	1.8kg
Note: the listed specs are just for your reference	

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