



48V

Model	48V MPPT Hybrid Boost Charge Controller
Wind Turbine Input	
Rated input power	600W
Input voltage range	0 ~ 64Vdc
Start charge voltage	8Vdc(factory default,8Vdc~64Vdc settable)
Rated input current	11A DC
Manual Brake	Keep pressing the button for 5s to unload completely, and then recover by manual operation.
Brake by over current	15A (factory default,0~15A 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—On special requests—MOQ)	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—On special requests—MOQ)	500rpm (factory default,0~1500rpm settable), unload completely when reached the set rotational speed, and recover automatically after working 10mins.
PV Input	
Rated input power	300W
Max. Open circuit voltage	96V
Rated input current	7A
Reversed connection protection	YES
Charge Parameters	
Rated battery voltage	48V
Temperature compensation factor	-3mV/ °C / 2V

Output Parameters	
Rated output voltage	48V
Output overvoltage point	56V (factory default, 44Vdc~64Vdc settable)
Output overvoltage recovery point	50.8V(factory default, reduce 5.2V from the output overvoltage point)
Max. Output current	13A
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	43.2V~64V
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	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, wind power generation capacity, solar power generation capacity, load power consumption, and so on.
Communication	Bluetooth (standard) RS232/RS485/RJ45 - (under special request)
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/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
Static loss	<0.6W
Ambient temperature	-20 °C~+40 °C
Humidity	0~90%, No condensing
Noise	≤65dB
Cooling mode	Natural cooling
Installation mode	Wall-mounted
Cover protection class	IP52
Product dimension (W*H*D) [mm]	150× 220 × 83mm
Product net weight	2.3kg