

MPPT Wind Controller

Machine



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 grid-tied system, off-grid system and grid-tied energy storage system.
- Several functions are optional, such as PV control function, wind speed measure function, rotational speed control function and temperature compensation function.
- RS232/RS485/RJ45/GPRS/Bluetooth/Zigbee optional.

- MPPT power curve settable
- Complete protection function
- Standard MODBUS protocol optional

TECHNICAL SPECIFICATIONS

Model	GW30-48-48
Type	Boost
Wind Turbine Input	
Rated input power	3kW
Rated input voltage	48Vdc
Input voltage range	0~64Vdc
Start charge voltage	12Vdc (factory default,8Vdc~64Vdc settable)
Rated input current	63A
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	63A (factory default,0~63A settable)Unload completely when reached the set current, and recover automatically after working 10mins.
Brake by overvoltage	Refer to "output overvoltage"
Charge Parameters (optional)	
Rated battery voltage	48Vdc
Output Parameters	
Rated output voltage	48Vdc
Start unload voltage	56Vdc (factory default,44Vdc~64Vdc settable)
General Parameters	
Rectifier mode	Uncontrolled rectifier
Display mode	LCD
Display information	DC output voltage, wind turbine voltage/current/power.

	For those with charge control function, Battery voltage is showed as well.
Monitoring mode (optional)	RS232/RS485/RJ45/GPRS
Monitoring Contents	Real-time display: DC output voltage, wind turbine voltage/current/power. For those with charge control function, Battery voltage is showed as well.
	Parameter setting: Output overvoltage point, wind turbine over current point, wind turbine start voltage, and wind turbine manual brake button.
Lightning protection	YES
Conversion efficiency	$\geq 92\%$
Static loss	$< 5W$
Ambient temperature	$-20^{\circ}C \sim +40^{\circ}C$
Humidity	0~90%, No condensing
Noise	$\leq 65dB$
Cooling mode	Forced air cooling
Installation mode	Wall-mounted
Cover protection class	IP42
Product dimension (W*H*D)	360×440×195mm
Product net weight	15.5kg
Dump load dimension (W*H*D)	400×390×210mm
Dump load net weight	13kg

Note: Part of parameters can be adjusted according to customer's specific demand.