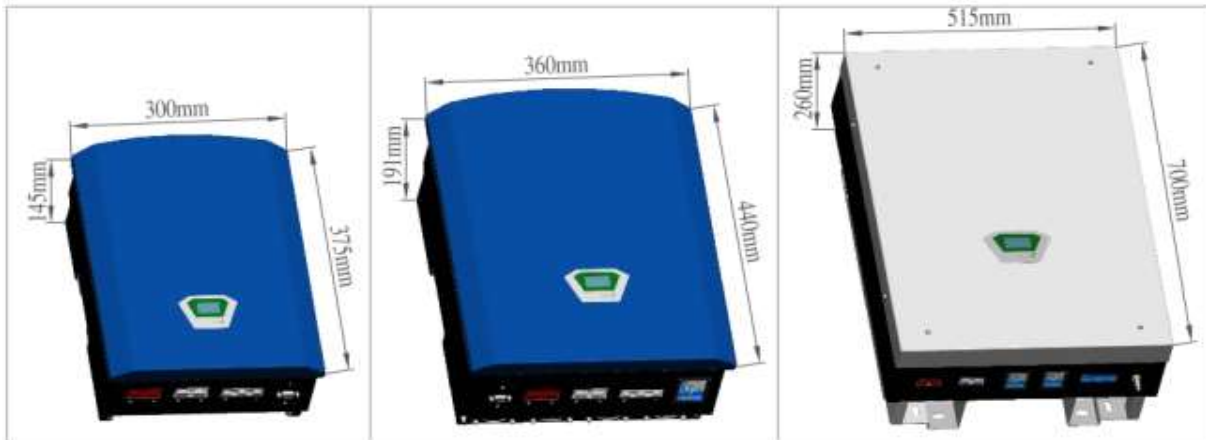


MPPT Wind Controller

Machine



1-3kW

5-10kW

20-30kW

Dump Load



1 kW

2 kW

3 kW

5 kW

10 kW

20 kW

30 kW



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 Parameters

2kW

Model	GW20-48-48	GW20-48-240
Type	Boost	Buck
Wind Turbine Input		
Rated input power	2kW	
Rated input voltage	56Vdc	280Vdc
Input voltage range	0~64Vdc	0~320Vdc
Start charge voltage	12Vdc (factory default,8Vdc~64Vdc settable)	60Vdc (factory default,40Vdc~320Vdc settable)
Rated input current	42A _{dc}	9A _{dc}
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	50A (factory default,0~50A settable)Unload completely when reached the set current, and recover automatically after working 10mins.	10A _{dc} (factory default,0~10A settable)Unload completely when reached the set current, and recover automatically after working 10mins.
Brake by overvoltage	Refer to “output overvoltage” control	320Vdc (factory default,220Vdc~320Vdc settable)PWM unload step by step once reached the set unload voltage, and it will unload completely if the voltage rise 20Vdc more.
Brake by over wind speed (optional)	18m/s (0-30m/s settable), unload completely when reached the set wind speed, and recover automatically after 10mins (and the speed should be less than 15m/s.)	
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.	
Charge Parameters (optional)		
Rated battery voltage	48Vdc	
Temperature compensation function (optional)	-3mV/°C/2V	
Output Parameters		
Rated output voltage	48Vdc	
Start unload voltage	56Vdc (factory default,44Vdc~64Vdc settable)	

Complete unload voltage	60Vdc (factory default, add 4V to the start unload voltage)
Max. Output current	42A _{dc}
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/Bluetooth/Zigbee
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	≥92%
Static loss	<5W
Ambient temperature	-20°C~+40°C
Humidity	≤90%, No condensing
Noise	≤65dB
Cooling mode	Natural cooling
Installation mode	Wall-mounted
Cover protection class	IP42
Product dimension (W*H*D)	300×375×145mm
Product net weight	10kg
Dump load dimension (W*H*D)	300*400*210 mm
Dump load net weight	9kg
Note: the listed specs are just for your reference	