



MPPT WIND CHARGE CONTROLLER



Smart MPPT(Boost & Buck) Function: Wide charge range.



Configurable Power Curve: Users can set parameters, and the controller will automatically generate the power curve.



Three-Stage Charging: The system uses a three-stage charging method to ensure charging efficiency and battery lifespan.



Wind Resistance and Speed Reduction: The system has a unique electrical speed reduction feature to effectively handle strong winds, preventing overheating and brake failure.



Low-Power Standby: When not in use, the system automatically enters a low-power standby mode.



Overload Protection: The system includes over-speed, over-voltage, and over-current protection to ensure safe operation.



Can be combined with solar energy.



Standard Interface: The system is equipped with a standard RS485 interface and Modbus protocol for easy interconnection with other systems.



APP and WEB remotely monitoring and control.

Model	GBBC1K/48	GBBC2K/48	GBBC3K/48	GBBC5K/48	GBBC10K/240
Rated wind power	1KW	2KW	3KW	5KW	10KW
Nominal system voltage	48V	48V	48V	48V	240V
Under voltage (Low) * adjustable	20.8V	40.8V		81V	210V
Under voltage recovery voltage(Rlow) * adjustable	23.5V	46.5V		93V	230V
Over voltage(Full) * adjustable	28.8V	57.6V		115V	284V
Over voltage recovery voltage(RFull) * adjustable	26.5V	52.8V		105V	265V
Float voltage(Flot) * adjustable	27.6V	54.0V		108V	272V
Wind dump load rotate speed(Rota) * adjustable	800R	800R	800R	400R	800R
Wind charging range * adjustable	DC (20-350)V	DC (20-350)V	DC (20-350)V	DC (20-350)V	DC (120-400)V
Wind start charging voltage(Cut In) * adjustable	24V	20V	20V	20V	120V
Wind dump load voltage(Vmax) * adjustable	80V	180V	150V	380V	400V
Dump load control mode	Over rotate speed limiting, Over voltage limiting, Over Current limiting, PWM				
Wind charging mode	MPPT(Boost & Buck) & PWM				
MPPT Mode	Auto & P-V Curve				
Display mode	LCD				
Display content	Battery: Voltage; charging current; percentage of battery power. Wind: Voltage; charging current; rotate speed; output current; output power Solar: Voltage; charging current. Loads: Current; power; working mode.				
Operating temperature & Relative humidity	- 20~ + 55°C /35~85%RH(Non-condensing)				
Power Loss	≤3W				
Protection type	Battery: Over-discharge protection; over-charge protection; anti-reverse connection. Wind: Over rotate speed protection, over voltage protection, over current protection. Loads: Over-load protection				
Controller size	450*425*210(mm)	450*425*210(mm)	450*425*210(mm)	450*330*210(mm)	450*330*210(mm)
Package size (Controller)	500*500*250(mm)	500*500*250(mm)	500*500*250(mm)	470*390*240(mm)	500*400*250(mm)
Package size (Dump Load)	Dump Load Inside			750*450*260mm	750*450*260mm
Net weight	16KG	16KG	16KG	12KG	11KG
Gross weight (Controller)	17KG	17KG	17KG	16KG	12KG
Gross weight (Dump Load)	Dump Load Inside			19KG	19KG
Communication function	RS232/RS485/USB/GPRS/WIFI/Ethernet				