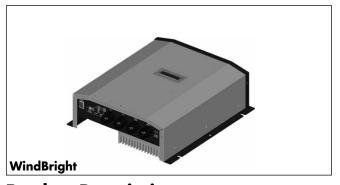
WindBright Wind Battery Charger





- 24V / 48VDC Battery charger
- Adjustable maximum charge current
- Battery overvoltage and overcharge protection
- Battery Voltage detection
- High wind speed protection
- LCD display and LED status
- · Low stand by power

Product Description

WindBright is an advanced battery charger using a microcontroller for digital accurancy and fully automatic operation. It can be used for 24V / 48VDC system. Especially designed to be used in combination with the Carlo Gavazzi Wind

Mill (Micro Aeolic Wind Turbine). This system will use the wind generator to charge the battery. The device has a built in protection mechanism that prevent battery from over voltage and/or over charging.

Ordering Key

WBC 003 48

Serie	
Model —	
System voltage —	

Type Selection

Serie	WBC:	Wind Battery Charger	
Model	003:	3000W rated output power	
System voltage	24:	24VDC battery system	
	48:	48VDC battery system	

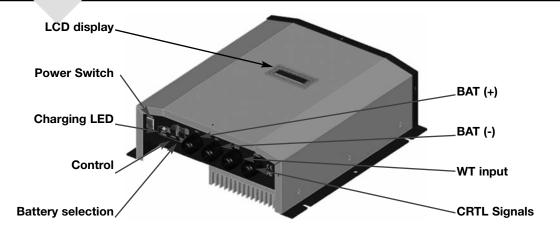
Approvals



Technical data

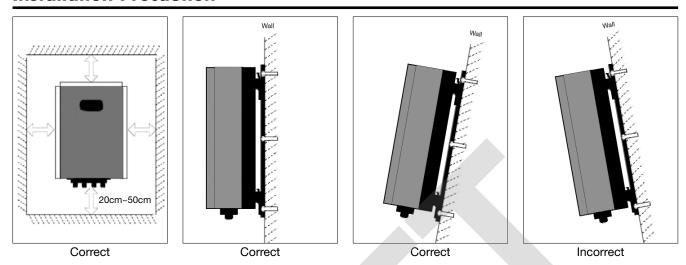
Max. Output power	3200W	Battery protection voltage	44VDC ±1V
Rated Output power	3000W	Float voltage	58V ±1V, 1min charging
Input Voltage range (line voltage)	50~200Vrms		per 10min
Rated input current	20A	Max. charge current	20/30/40/50Amps adjustable
Max. Charger efficiency	>90%	Man-Machine interface	LED/LCD status indications
MPPT efficiency	>95%	Working temperature	-20°C+40°C
Stand-by power	<5W	Degree of Protection	IP43
Recommended 24V / 48V:	200AH/350AH/500AH/600AH	Dimensions (LxWxH) mm/inches	400x325x130
rechargable batteries		• •	15,75x12.79x5.12"
. Some game autorios		Weight	15kg/33.01lb

General Overview





Installation Precaution

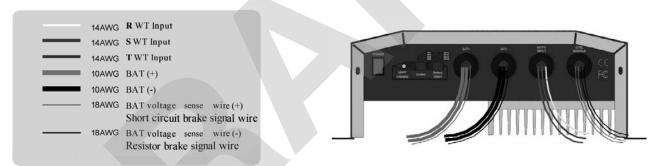


Mount the device on to a vertical surface.

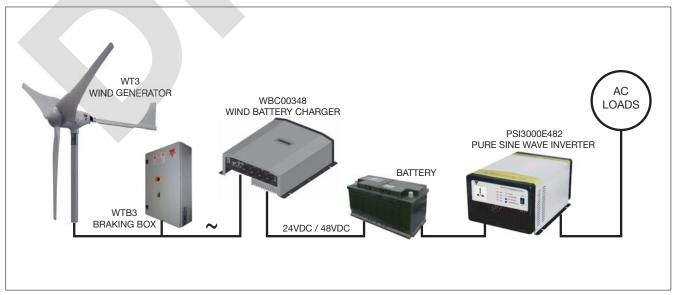
Allow a minimum of 20 cm (7.87") space all oround the charger for air flow.

The charger uses natural cooling mode, so avoid placing the charger near heat sources and direct sunlight.

Wiring Diagram



Schematic Connection diagram



- The length of the wire, connecting the battery end and the charger should not exceed 5m.
- Pay attention to polarity when connecting anode and cathode of battery to the charger BAT(+) and BAT(-).
- In order to ensure the over speed protection of the wind turbine, the controller will activate the brake. When the wind speed is too high or in the typhoon season, you can install additional circuit breakers to use the brakes manually.