



6KW BATTERY CHARGER

With integrated optimal power point tracking for Scirocco wind turbine



Description

Our **48V Battery Charger** is specifically designed to be used with 6kW/5.5m Scirocco variable speed wind turbine.

It use state of the art power and control electronics. Its unique DSP controlled maximum power point tracking system ensure perfect wind power extraction, even in low wind conditions. In addition, controlled rotation speed reduce drastically noise and blades wearing.

Sophisticated battery management with fully programmable thresholds increase battery life and overall efficiency.

Eoltec's power electronics are manufactured and developed in exclusive cooperation with leading innovative inverters manufacturer, **MLTDrives CC** (South Africa – www.mltdrives.com - info@mltdrives.com)

– 6 kW Battery Charger specification sheet –

Model	BC-6K-48V
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Input specification (WT)

Input voltage range (3 phases input)	85V to 260V AC
Input voltage frequency	18 to 52 hz
Maximum input current (continuous)	15 A
Maximum input power (continuous)	6350 W

Output specification (battery)

Nominal battery voltage	48V
Output voltage range	40 to 64.0 Vdc
Maximum output power (continuous)	6000 W
Maximum output current (continuous)	120 A

Battery control (thresholds and time settings adjustable)

Absorption time	0 to 4h
End charge cycle voltage	57.6V
Floating voltage	54.4V
Equalization voltage (each 25 cycles)	62.0V
Temperature compensation (optional temp. sensor)	-3mV / °C / cell

User interface

Main display	LCD, 2 lines of 16 characters
Alarm display	Main LCD display + Led
Parameters input and scrolling	Keypad
Displayed parameters	Battery voltage, output current/power Input voltage/current, wind turbine rpm
Displayed settings	Thresholds and time settings

Housing

Dimensions (DxWxH) mm	350 x 300 x 560mm
Weight (kg)	65 kg
IP protection index	IP53
Input & output connection	Ø 6mm stud terminals
Fixing	Wall mount or floor fixation

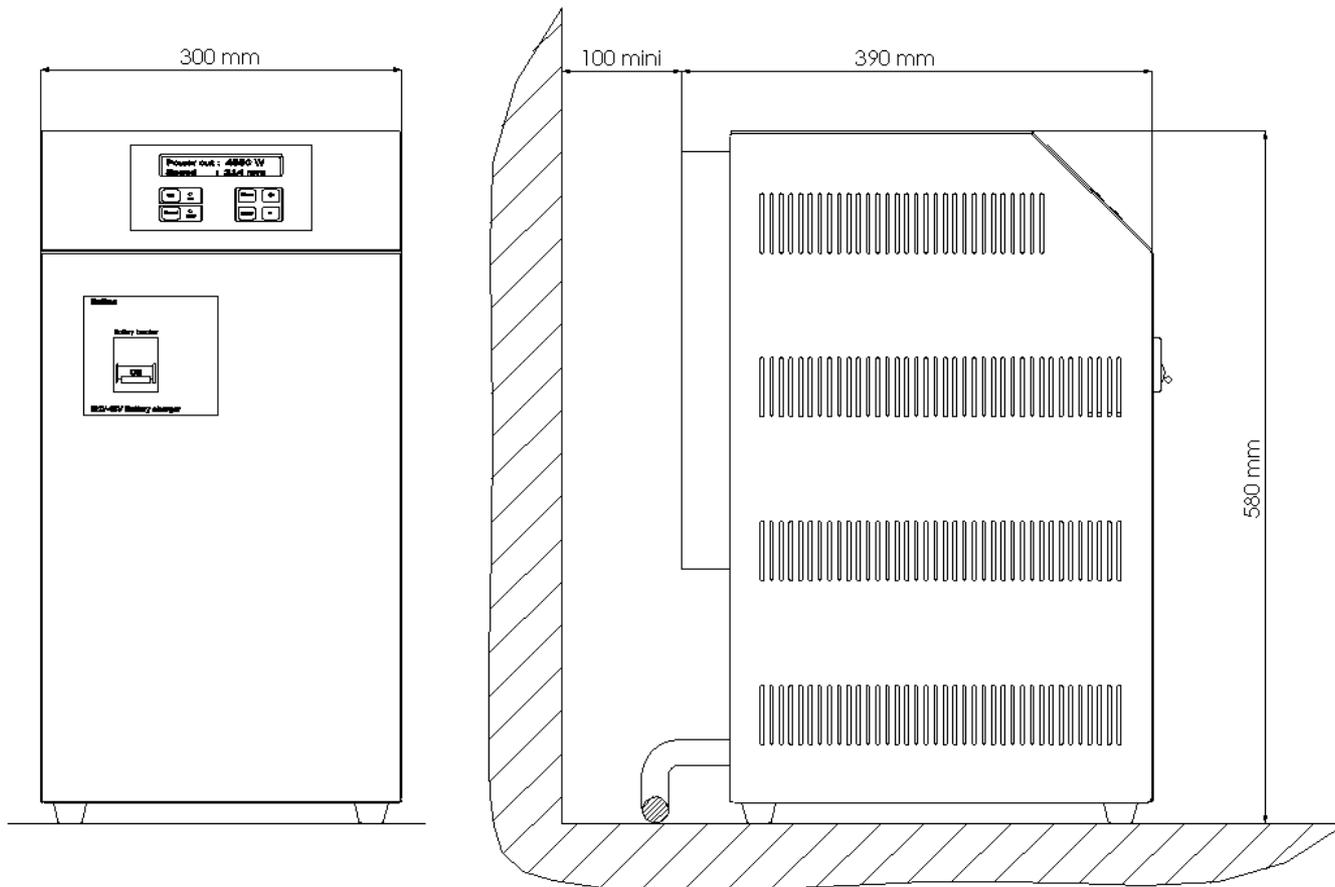
Miscellaneous

Operating temperature range	-10 to +45°C
Maximum efficiency	92%
Input/output galvanic insulation	Yes, integrated transformer
Standby consumption	4.5 watts
Over voltage protection	Input and output
Over temperature protection	yes
Over current protection	Electronic control and circuit breaker
Cooling	Natural cooling
Communication	RS232 port
Mean time between failure (MTBF)	>25000 hours (at 100% output power)
Warranty	2 years

Option

Battery temperature sensor	LM335
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Dimensions and implantation



Simplified internal scheme

Battery charger simplified scheme

