ENEPOWER

CH623

4/TSB004 - Battery Charger

14.4VDC | 50A | LiFePO4 | 720W

LiFePO4 Battery Charger in Rack Mount Case

Custom Dual-input Battery Charger (Grid and Solar)

DESCRIPTION

The CH623 (4/TSB004) is a customised dual-input battery charger suitable for charging 12.8Vdc Lithium Iron Phosphate battery packs with over 700W from the grid or the solar panels array.

- High quality and environmentally resistant 1RU 19” rack enclosure.
- Engineered and manufactured in Australia.
- Bluetooth capability for remote battery monitoring.
- LED indicator for charging status.
- State of Charge display.

GENERAL SPECIFICATIONS

Model Number	CH623	
Part Number	4/TSB004	
Battery Charger (1)(2)	Battery Chemistry	Lithium Iron Phosphate (LiFePO4)
	Battery Nominal Voltage	12.8Vdc
	Charge Voltage	14.4Vdc
	Float Voltage	14.2Vdc
	End-of-Charge Voltage	14.4Vdc
	High-Voltage Protection	15.6Vdc
	Low Voltage Cut-off	9.2Vdc
	Voltage Accuracy	<1%
	Charge Current	50A
	End-of-Charge Current	5A
	Current Accuracy	<5%
	MPPT Mode	ON
	Monitor Voltage Drop	ON
	Battery Output Connector	Anderson SB50
AC Input	AC Voltage range	100-240Vac
	Frequency range	47/63Hz
	Protection Fuse	10A
	Input Connector	IEC C14
PV Input (MPPT / Solar)	Max PV Input Voltage	75Vdc
	Max PV Input Current	20A
	Nominal PV Power	800W
	Input Connector	Anderson SB50
Load Output	Max DC Output Voltage	14.4Vdc
	Max Output Current	50A
	Output Connector	Anderson SB50
User Interface	Victron SmartShunt 500A/50mV	
Dimensions	422mm (W) x 457 mm (D) x 44mm (H)	
Temperature	Operating	0°C to 40°C
	Storage	-20°C to 60°C

LED PATTERNS - ROUTINE	
Traffic light (green-red)	System reset. Occurs at power on and battery connection.
Slow Green-Red blink	System waiting. Battery disconnected.
Solid Green-Red	Constant current phase. (inc. pre-condition if programmed)
Green-Red with Red blink:	Constant voltage phase
Solid green	Charge Complete. Float Charge continues (if programmed)

(1)Can be reprogrammed.
(2)Refer to TSB004 on website for more info.

LED PATTERNS - EXCEPTIONS	
Three red flashes	Charge suspended. Battery volts too low
Two red flashes	Charge suspended. Battery volts too high
Slow red blinking (1 flash every 5 sec)	Charge suspended. Battery or PCB too hot (PCB self protected to 75°C)
Fast red blinking	Thermistor Error. (Needs Power Reset)
Green-Red blinking (1 flash every ½ sec)	Timeout. Time limit is customisable on request
Solid red	Fault. (Needs Power Reset)