

PROFESSIONAL LITHIUM BATTERY CHARGER

LBC-6140 (12V 40A)/ LBC-6220 (24V 20A) with DC Source Mode



Professional Lithium Charger for: Lithium Ion group: NMC, NVA, LCO, LMO & Lithium Fe Phosphate (LiFePO4) Batteries

One Set Button intuitive programming for Charger and DC source Mode.
The programmable charger design for Lithium base batteries with constant monitoring of the battery state so that it can be connected to the battery at all times.
Selectable for Lithium Ion group or LiFePo4 type battery or DC Source Mode.
Soft Start charging to ensure gentle initial charging of deeply depleted batteries and charger will return to normal charging once battery state of charge picks up.
10%/ 25%/ 50%/ 100% Max Charging Current selections allow an optimal charging current for a wider range of battery capacities.

4 Stage Charging Profile

Battery Type	Batt Volt V -low	Batt Volt V-Normal	Bulk/ Absorption V	Float V (On)	Recycle V level
Lithium Ion 12V/ 24V:	10.2V/ 23.8V	10.8V/ 25.2V	12.6V/ 29.4V	12.2V/ 27.2V	10.8V/ 25.2V
LiFePo4 12V/ 24V:	12.6V/ 23.2V	12.8V/ 23.6V	14.6V/ 29.2V	13.8V/ 27.0V	12.8V/ 23.6V

The maximum time period for Absorption Charge or end of Boost Charge prevents abnormal or faulty batteries continuously drawing current from the charger under high voltage condition.

The Float Charge can be set to ON/ OFF to cover various BMS (battery management system) and operating conditions of the battery.

Thermo fan cooling and works with supplied battery temperature sensor for high temperature limiting charge current to 3A at 60°C self recoverable when temperature returns to about 45°C.

Low Temperature Protection : at minus 2°C charge current drops to 3A and returns to normal at minus 0.5°C.

The DC Source Mode

Output Voltage adjustable from 10.6V to 14.6V by 1 volt step & 0.1volt step.
Max Output Current adjustable by 10%/ 25%/ 50%/ 100%.

Construction, Protection and Additional Features

- Anodized Aluminum housing with Polycarbonate end caps.
- Optimal Power Conversion Efficiency 92%
- Short Circuit Protection self recoverable
- Fused reverse polarity protection
- Supplied remote battery temperature sensor
- Thermo fan from zero to full speed .
- WiFi or Bluetooth Connectivity:
With App via Android or Apple phone, Output Voltage, Current, Charging Status, Battery type select or Power Supply Mode are displayed on the phone.

* All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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Specifications

Models	LBC-6140	LBC-6220
AC Input Voltage	190-260VAC 50Hz~	
AC Input Current @ Full Load	≤5.0A	
No Load Input Current	≤120mA	
Absorption Voltage Selections		
Lithium Ion	12.6V	29.4V
LiFePO4	14.6V	29.2V
Maximum Output Current	40A	20A
Selection of Output Power Level	10%, 25%, 50%, 100%	
Optimal Efficiency	92%	
Recommended Battery Capacity Range	4-15Ah @ 10% 10-35Ah @ 25% 20-70Ah @ 50% 40-135Ah @ 100%	2-7.5Ah @ 10% 5-17.5Ah @ 25% 10-35Ah @ 50% 20-67.5Ah @ 100%
Protections	Short Circuit protection, self-recoverable Over temperature protection, 3 steps decrease of output power, self-recoverable Battery over temperature protection, with battery remote sensor, Reverse Polarity(fused) (Replace by 25A fuse x2 for 6140, 25A fuse for 6220)	
Cooling Method	Thermostatically Controlled Variable Low Speed Fan (0 to full speed)	
Back Drain Current	Less than 1Ah/ month	
Operating Temperature	-10°C to +50°C (Maximum Output up at 40°C)	
Optional Accessory	Remote Control SDR-5100	
Wireless Remote Control	For Bluetooth/ WiFi model only, Remote control by Smart phone Apps	
Approval	CE EN 61000, 60335, 55014, 62233	
Dimension (LxWxH)	223x135x73 mm 8.8x5.3x2.9 inch	
Weight	1.8 kg 4.8 lbs	

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