

LBC BATTERY CHARGER

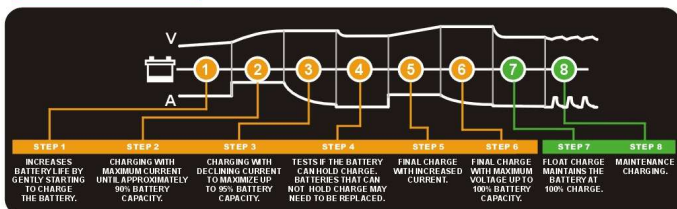
8-STAGE 12V AUTOMATIC LITHIUM (LiFePO4)

No matter the size or type, leave it to LBC-Charger.

8 STAGE SMART / AUTOMATIC

LiFePO4

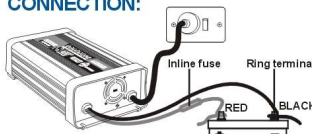
Soft Start, Bulk, Absorption, Analyse, Completion, Maximization, Float, And Maintain.



FUNCTION:

1. Protective Features
2. Polarity Protection
3. Output Short Protection
4. Non Battery Link Protection
5. Disconnect Protection
6. Over Voltage Protection
7. Over Temperature Protection
8. Cooling Fan

CONNECTION:



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12V AUTOMATIC LITHIUM BATTERY CHARGER

12V AUTOMATIC LITHIUM BATTERY CHARGER
This is a fully automatic lithium battery charger with 8 charge stages.

Automatic charging protects your battery from being overcharged. So you can leave the charger connected to the battery indefinitely.

8-stage charging is a very comprehensive and accurate charging process that gives your battery longer life and better performance compared to using traditional chargers.

The 8-stage charger is designed for Lithium-ion batteries using LiFePO4 technology only.

STEP 1 SOFT START

A preliminary charge processes that gently introduces power to the battery. This protects the battery and increases battery life.

STEP 2 BULK

Charging with maximum current until approximately 90% battery capacity.

Bulk mode for the charging cycle. The start phase continues until the battery's terminal voltage has risen above the set limit, at which point the charger switches to bulk charging. If the terminal voltage has not passed the voltage limit within the time limit, the charger switches to fault mode (Step 2 lamp solid) and discontinues the charging. If so, the battery is faulty or its capacity is too large.

STEP 3 ABSORPTION

Charging with declining current to maximize up to 95% battery capacity.

STEP 4 ANALYSE

Tests if the battery can hold charge. Batteries that can not hold charge may need to be replaced.

STEP 5 COMPLETION

Final charge with increased current.

STEP 6 MAXIMIZATION

Final charge with maximum voltage up to 100% battery capacity.

STEP 7 FLOAT

The Float stage maintains the battery at 100% charge without overcharging or damaging the battery. This means the charger can be left connected to the battery indefinitely.

STEP 8 MAINTAIN

Maintaining the battery at 95 - 100% capacity. The charger monitors the battery voltage and gives a maintain when necessary to keep the battery fully charged.

The 12V AUTOMATIC LITHIUM BATTERY CHARGER has an 8-step fully automatic charging cycle. The cycle is repeated infinitely. If the terminal voltage drops below a lower limit, the charger automatically goes back to the beginning of the charging curve.

SPECIFICATIONS

P/No.	LBC 1205	LBC 1207	LBC 1210	LBC 1212	LBC 1215	LBC 1220
Charger Type	8-Stage automatic					
Input Voltage	220-240V~, 50/60Hz			110V~, 60Hz		
Input Power	151W	215W	307W	332W	415W	554W
Output Voltage	12V DC	12V DC	12V DC	12V DC	12V DC	12V DC
Output Current	5A	7A	10A	12A	15A	20A
Minimum Start Voltage	1.0V	1.0V	1.0V	1.0V	1.0V	1.0V
Back Drain	4mA	4mA	4mA	4mA	4mA	4mA
Current Fuse Rating	250VAC, T3.15A	250VAC, T3.15A	250VAC, T3.15A	250VAC, T3.15A	250VAC, T3.15A	250VAC, T5A
CHARGE CONTROL						
Soft Start	25% Current until 11V					
Bulk	5A up to 13.8V	7A up to 13.8V	10A up to 13.8V	12A up to 13.8V	15A up to 13.8V	20A up to 13.8V
Absorption	Constant voltage until current drops to 0.75A	Constant voltage until current drops to 1.05A	Constant voltage until current drops to 1.5A	Constant voltage until current drops to 1.8A	Constant voltage until current drops to 2.25A	Constant voltage until current drops to 3A
Analyse	Monitors voltage for 3 minutes					
Completion	1.5A Current until 14.5V	2.1A Current until 14.5V	3A Current until 14.5V	3.6A Current until 14.5V	4.5A Current until 14.5V	6A Current until 14.5V
Maximization	Constant 14.5V until current drops to 0.75A	Constant 14.5V until current drops to 1.05A	Constant 14.5V until current drops to 1.5A	Constant 14.5V until current drops to 1.8A	Constant 14.5V until current drops to 2.25A	Constant 14.5V until current drops to 3A
Float	13.8V - 100% Current					
Maintain	13.4V-13.8V, 5-1A	13.4V-13.8V, 7-1.4A	13.4V-13.8V, 10-2A	13.4V-13.8V, 12-2.4A	13.4V-13.8V, 15-3A	13.4V-13.8V, 20-4A
Efficiency	App 85%					
Thermal Protect	85°C ±5°C					
Cooling Fan	Automatic temperature controlled					
Ambient Temperature	-20°C to +50°C, output power is reduced automatically at high temperatures					
Over Voltage Protection	The 12V lithium battery charger will automatically protection if the voltage is higher than 15.5V.					
BATTERY RANGE						
Deep Cycle	10-50Ah	14-70Ah	20-100Ah	24-120Ah	30-150Ah	40-200Ah
Types of Batteries	12V Lithium-ion LiFePO4 batteries					
Dimension (L×W×H)	197x116x82mm	197x116x82mm	197x116x82mm	197x116x82mm	217x116x82mm	217x116x82mm
Weight	1.05kg	1.05kg	1.1kg	1.1kg	1.28kg	1.28kg

*Internal fuses should only be replaced by qualified electrical appliance repairer



LBC 1205 LBC 1207

LBC 1210 LBC 1212



LBC 1215 LBC 1220