

**LITHIUM ION PHOSPHATE BATTERY CHARGER**

The ELBC Series of lithium battery chargers feature an intelligent 3-step charging logic, which can help charge even the deepest of discharged batteries. To maximize battery performance and battery life, the optimized charging technology makes the best possible use of the capacities of the batteries to be charged. With EMC,ROHS,CE compliance, these LiFePO4 battery chargers can be used in a variety of applications ranging from consumer electronics to medical devices.

ELECTRICAL SPECIFICATION	
Input voltage	90-130V/185V-245V
Line frequency	47 – 63Hz
Output voltage	29.2Vdc
Output Current	50A
Max.output power	1500W
Charge Control (see charger diagram)	Low current start-up for: CC $1.6A \pm 0.2A$
Step 0 < 10min (Yellow)	when batt volt < 20V
Step 0 > 10min (Red: 4 blinks)	Battery voltage too low: 0A / 0V
Step 1 (LED 2 : RED)	Charge current: $50A \pm 0.3A$
Step 2 (LED 2 : RED)	Charge voltage: $29.2V \pm 0.2V$
Step 3 (LED 2 : Green)	Charge term when current is: < 1.6A
Restart	or max. 1 hr. 26.4V
Protection	Protected against reversed polarity, short circuit and thermal run-off
Input terminal	Customized
Output terminal	Customized

MECHANICAL SPECIFICATIONS	
Dimensions (mm)	L240*W175*H110
Weight	4kg
Cooling method	Air cooling
Case Material	Aluminum alloy
Enclosure protection	IP65

TEMPERATURE SPECIFICATIONS	
Operating temperature	-10°C to 45°C
Storage Temperature	-40 to 75 °C

**FEATURES**

- IP65 protection level
- Highly efficient LiFePO4 battery chargers
- 3-step charge control with current

detection

- Super high-quality components
- Alligator clip connectors with insulated

sleeves

- Robust design with insulation class II

**PROTECTION FUNCTION**

➤ **Burnout Protection:** If temperature of charger exceeds the limitation, the charger will low down the power load. If environment temperature exceeds 65 °C, the charger will stop charging and switch itself to standby mode until the temperature goes down.

➤ **Protection for Reverse Connection of Batteries:** The circuit inside the charger shuts down when the batteries are connected reversely.

➤ **NO-load Protection:** There is no output when the battery is not connected.

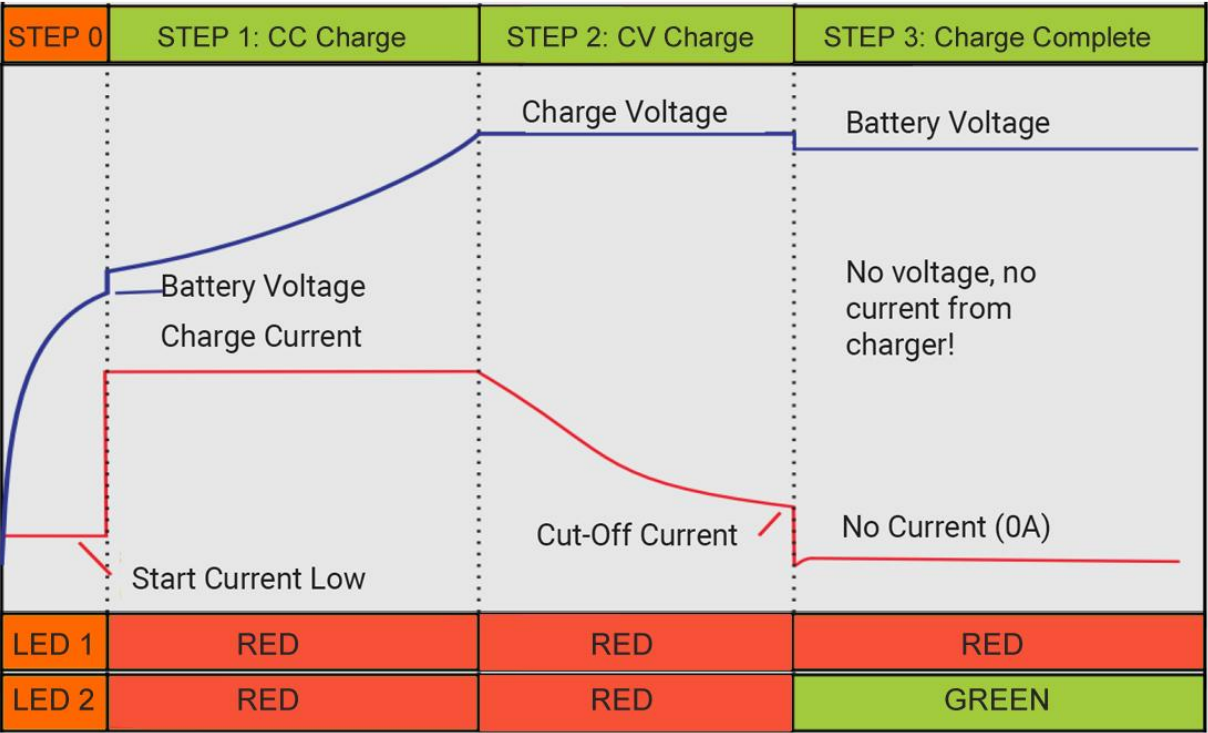
➤ **Short Circuit Protection:** The circuit inside the charger will shut down when output is short-circuited.

- Automatic shutdown when fully charged.

BATTERY CHARGER DIMENSION (mm)



CHARGER DIAGRAM



## CHARGER INPUT TERMINAL(OPTIONAL)



## CHARGER OUTPUT TERMINAL(OPTIONAL)



# ELB

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