

58.4V 18A Lithium Battery Charger User Manual

1. Overview

This series of in-vehicle smart chargers can replenish the energy of the vehicle's power battery in the parking state, and the charging process is controlled by the charging program. Meet the automotive grade temperature resistance and vibration resistance requirements.

2. Expansion function

- (1)Maximum efficiency>90%
- (2)Wide temperature range for operation
- (3)Strong protection function
- (4)100% full load aging test
- (5)Automotive level vibration resistance level
- (6)Intelligent temperature compensation for batteries

3. Protection features

- (1)Output over voltage protection.
- (2)Output over current protection
- (3)Output short-circuit protection.
- (4)Output reverse protection.
- (5)Charger over temperature protection.

4. This charger can be mounted in several different configurations:

- (1)Preferred mounting orientation
 - Horizontally flat mounted with fan (handle) facing upwards with no obstruction
 - Vertically mounted with AC/DC cords facing up or down
 - Side mounted with AC/DC cords facing left or right
- (2)Non-Preferred Mounting Orientation
 - Horizontally mounted with fan (handle) facing the ground

NOTE: Always mount the charger to a noncombustible material surface(metal/ brick/concrete). When choosing an installation location, ensure there is space around the fan to provide sufficient cooling - at minimum3 inches.

5. Precautions for use

WARNING

- (1)To reduce the risk of fire, install this battery charger on a surface of non-combustible material such as brick, concrete, or metal.
- (2)To reduce the risk of electric shock disconnect charger from AC power after using.
- (3)Risk of electric shock. Do not touch uninsulated portion of AC or DC connectors or uninsulated battery terminal.
- (4)Ventilate the area when the battery is charging in an enclosed place,never smoke, use an open flame, or create sparks near the battery.
- (5)The surface temperature is high during charging, please do not touch it.
- (6)Only a qualified service technician should program or maintain the chargers.

DANGER

- 1. A grounded outlet is required to reduce risk of electirc shock.
- 2. Charge only batteries of the same type, voltage, cell number, and amp hour capacities as shown on the label. Other types of batteries may burst causing personal injury and damage.
- 3. Do not operate this charger if AC supply cord is damaged or if the charger has received a sharp blow or is damaged in any way.

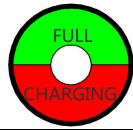

7. Common faults and solutions

If there is fault of charger, please handle according to the below table:

- (1)Error input voltage: To check if the input voltage conformedto the requirement or not.
- (2)Thin input wire line: To change the suitable input wire line.
- (3)Machine over heat: Pay attention to ventilation at the working place of charger, covering anything on the charger is not allowed.
- (4)Output short-circuit: To check the wire line of output terminal to exclude short-circuit.
- (5)There is no battery or reverse battery: Check the battery connection, connect the battery correctly.
- (6)Lower voltage of battery: to manage to make battery voltage be up to the starting voltage of charger.
- (7)Battery over heat: Pay attention to ventilation; if there set outside temperature sensor, then stick it to the battery surface tightly. (The temperature sensor of portable charger is inside of charger)
- (8)Charger overheating: ensure that the charger vents and space remain unobstructed and away from the heat source.

Remark: The Company has the final explanation right for this instruction,if there is revision, no prior notice.

6. Indicator status description

Indicator lamp type		
Electric quantity indication	Red light flashing: ≤90% Green light flashing: ≥90% The green light is always on: 100%	Red light flashing: ≤80% Yellow light flashing: ≥80% Green light flashing: ≈100% The green light is always on: 100%

- Please check the corresponding indicator type according to the light mark on the product body.