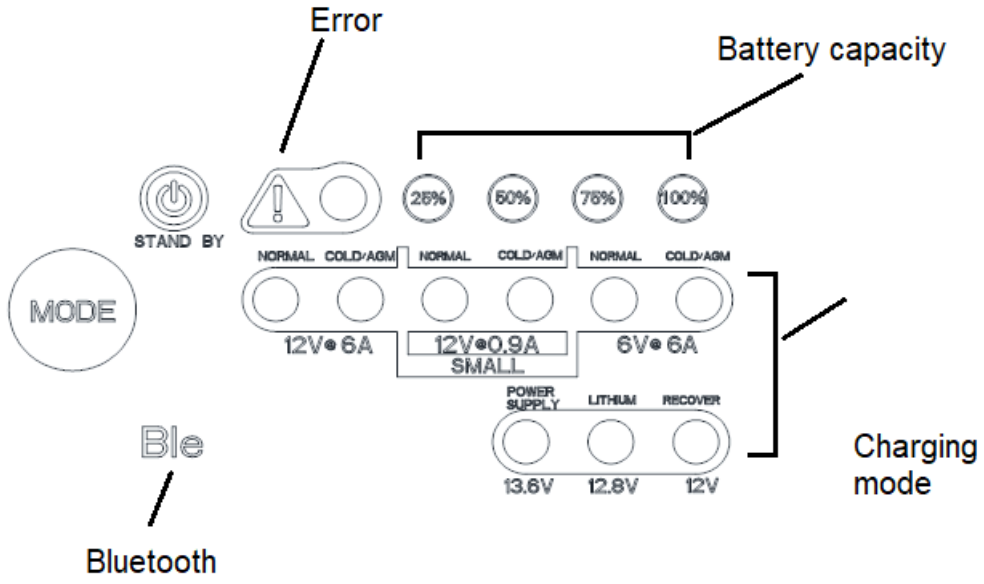
## Model No.: LB60

The product is special applied 6V/12V Lead-acid battery (Wet, Gel, MF and AGM) and 12.8V 4-cells $LiFePO_4$. The whole charging procedure is under the control of MCU. Product has Memory function which enables charger to return to last selected mode automatically when power is switched on.
*If it is connected to the 1-to-3 Switcher, user can program the charging process on different batteries (max. 3 batteries).
**If the charger is paired with smartphone, user can control it through smartphone.

*: 1-to-3 Switcher is not included.
**: It is an extended function. See the instruction of “APP OPERATION”.

## LED indication




## How to use

| Mode | Explanation |
|---|---|
| Standby | In Standby mode, the charger is not charging or providing any power to the battery. |
| 6V Normal | For charging 6-volt Lead-acid batteries only, like Wet Cell, Gel Cell batteries. |
| 6V Cold/AGM | For charging 6-volt advanced AGM batteries, which requires a higher than normal charging voltage. |
| 12V Normal | For charging 12-volt Lead-acid batteries only, like Wet Cell, Gel Cell batteries. |
| 12 V Cold/AGM | For charging 12-volt AGM batteries, which requires a higher than normal charging voltage. |
| 12V Small Normal | For charging 12-volt Lead-acid batteries only, like Wet Cell, Gel Cell batteries. Allows the unit to operate at a lower charge current for smaller batteries. |
| 12V Small Cold/AGM | For charging 12-volt AGM batteries, which requires a higher than normal charging voltage. Allows the unit to operate at a lower charge current for smaller batteries. |

| | |
|---|---|
| 12V Recovery | An advanced battery recovery mode for repairing and restoring, old, idle, damaged, stratified or sulfated batteries. |
| Lithium | For charging 12-volt Lithium Iron Phosphate ($LiFePO_4$). For use on batteries with Battery Management Systems (BMS) only. |
| Power supply | Supply Mode converts the charger to a constant voltage DC power supply. It can be used to power 12VDC and devices, tire inflators, seat heaters and more. As a power supply, it can also be used to retain a vehicle's on-board computer settings during battery repair or replacement. |

## Charge a battery:

1. Connect the charger to the battery.
2. Plug the charger to the wall socket. All LEDs flash 3 times. The "Standby" LED will on. If the Error LED is on if the battery clamps are incorrectly connected.
3. Press the "Mode" button to select the charging program (6V Normal or 6V Cold/AGM; 12V Normal or 12V Cold/AGM or 12V Smal Normal or 12V Small Cold/AGM).
4. Long press the "Mode" button, charge jumps to "12V Recover". Press the "Mode" button again, charge jumps to "Lithium" Mode. Press again jump to standby.
5. If the clamps are not connected to battery, long press the "Mode" button, charge goes to "Power supply" mode. Press again jump to standby.

## Warnings and Safety Instructions:

1) For indoor use ONLY!
2) Do not charge non-rechargeable batteries.
3) Please check the battery capacity should not be more than 120Ah.
4) During charging the battery must be placed in well ventilated area.
5) The battery is to be disposed of safety.
6) This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made bychildren witho ut supervision.
7) Children should be supervised to ensure that they do not play with the appliance.
8) Disconnect the supply before making or breaking connections to the battery.
9) The battery terminal not connected to the chassis has to be connected first. The other connection is to be made to the chassis, remote from the battery and fuel line. The battery charger is then to be connected to the supply mains.
10) After charging, disconnect the battery charger from the supply mains. Then remove the chassis connection and then the battery connection.
11)

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

## Technical data

Input: 220-240V~ 50Hz 1A
Output: 6Vdc, 6A; 12Vdc, 6A; 12Vdc 0.9A; 12.8Vdc 6A; 13.6Vdc, 6A
Battery capacity: 6V, 12Ah-120Ah / 12V, 12Ah-120Ah / 12V Small, 1.2Ah-12Ah / Lithium (liFePO$_4$), 8A-50Ah
Operating Temperature: 0℃ to +40℃
Dimensions (L x W x H) mm： 279.3*119*68.2mm
Battery types: All types of 6V and 12V Lead-acid batteries (WET, GEL and AGM) and Lithium (LiFePO$_4$)
Insulation Class: IP 65