



Detailed description

IN

In mode Indicator: The product defaults to IN (input) mode upon powering on, allowing users to charge a 12V battery via an external power source.

OUT

Out mode Indicator: Pressing the button indicator for 1 second switches the product to the OUT (output) mode. In this mode, users can power devices such as mobile phones using the 12V battery. Charging mobile phones while riding a motorcycle is also possible in this mode.

13.5v

Voltage Indicator: When a 12V battery is connected to the product, it displays the battery voltage with an accuracy of $\pm 0.15V$.



Battery Damage Indicator: In IN mode, if the battery voltage falls below 10V and continuous charging at 0.8A for 5 minutes fails to raise the voltage above 10V, the product deems the battery as damaged. It stops charging and the fault indicator light flashes to notify the user of the issue.



Mode Switching: Press and hold the button for 1 second to switch between IN and OUT modes.
LiFePO4 Battery Activation: If the charging indicator does not light up in IN mode, the LiFePO4 battery may be in discharge protection mode. **In this case, press and hold the button for 3 seconds in IN mode to activate the battery.** Once activated, the charging indicator will start to blink slowly, indicating that the battery is charging normally.



Battery Charging Indicator: In IN mode, the charging indicator blinks while charging a 12V battery. When the battery charging voltage reaches 14.5V and the current is $< 0.3A$ for 2 consecutive minutes, the battery is considered full, and the charging indicator remains illuminated. Subsequently, the battery charging voltage drops to 13.5V, entering float charging mode, and the charging indicator remains illuminated unless the product is powered off and restarted.



Discharge Fault Indicator: In IN mode, if there is a short circuit between the positive and negative terminals, or when the portable power bank automatically sleeps, it will cause PD30 output again, this discharge fault indicator lights up. In OUT mode, if the battery voltage falls below 11V, the discharge fault indicator will also light up.

Functional Instructions

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QR - SHOP

01 Connect to battery

Users can use O type terminals to connect the positive and negative terminals of the battery and tighten them with screws. If the battery is installed in a motorcycle or vehicle, it is recommended to use this method for connection, which facilitates daily battery maintenance and charging.

Use battery clamps to clamp the positive and negative terminals of the battery. If the battery is placed separately, it is recommended to use this method for connection, which facilitates easy disassembly.



02 Connect to Power Elf

Users can use mobile phone chargers, power banks, or mobile energy storage devices to power the product. To maximize the performance of the product, it is recommended to use a 30W or higher-power charger/power bank to power the product.

03 Charge to battery

IN Mode: When the plug is inserted, the Battery Wizard will begin charging the 12V battery.

04 Charge to Phones

OUT Mode: The product can draw power from the 12V battery to charge digital products such as mobile phones.

