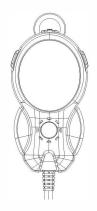


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# **PD30W POWER ELF**

Bidirectional Mini Charger User Guide



Please go through this user guide before your first use of Power Elf .





### Featured with 3 functions:



Volt Meter

When connecting with 12V lead acid battery or 12.8V LiFePO4 lithium battery, it displays the battery's voltage, and also can be used as volt meter.



Charger for Battery

At IN mode, it can charge 12V lead acid battery or 12.8V LiFePO4 lithium battery through its type C interface from mobile phone charger,power bank,portable power station.



Charger for Mobile Phone

At Out Mode, it can charge your electronic devices (like mobile phone or iPad) from the 12V lead acid battery or 12.8V LiFePO4 lithium battery,even when your motorcycle is running.

### Accessory List





CONSTRUCTION

Product body Line length 1.2m

O Type terminal 0.6m Users Manual





Battery clamp 0.6m Type C cable 1m



### Connection





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



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





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



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.



### **IN Mode**

The default mode is IN when Power Elf is powered on, it can charge 12V batteries from power supply.

## **BATTERY SPIRIT APPLICATION**

#### CHARGE & MAINTAIN





CAR





TRUCK

### NOTAPPLICABLE



RV

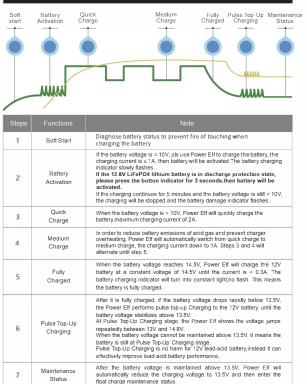


TRACTOR



#### BOAT

### Smart Charging by 7 Steps



※ Some power banks/portable power stations may automatically shut down when its discharge current is < 0.3A, in this case Power EIf will not be able to enterstep 6 maintenance status, as there is no power input. To avoid such situations, users can choose a power bank that would not automatically shut down, or choose cell phone charger.

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### OUT Mode

The default mode is IN when Power Elf is powered on. Users can press the button indicator to switch to OUT mode.

In OUT mode, users can charge electronic devices such as mobile phones through 12V battery. When the motorcycle is running, it can also be used normally.

### **Product specifications**

IN Mode	
Input	Mobile phone chargers
	Power bank
	Portable power station, and other power supply devices
Output	DC 14.5V/ 2A (Require ≥30W Charger or power supply devices)
	DC 14.5V/ 1.2A (Require 18W Charger or power supply devices)
	DC 14.5V/ 0.6A (Require 10W Charger or power supply devices)
Voltage limit	14.6V
Temperature range	Working:-10°C- 45°C,-50°F- 113°F
	Storage: -20°C— 60°C, -68°F— 140°F
Charging mode	Fully automatic
Suitable for batteries	12V Lead acid battery
	12.8V LiFePO4 lithium battery

#### OUT Mode

İnput	12V Lead acid battery
	12.8V LiFePO4 lithium battery
Output	5V_3A, 9V_3A, 12V_2.5A, 15V_2A, 20V_1.5A, MAX 30W
Supported protocols	PD2.0\3.0\QC2.0\3.0\AFC\FCP\SCP\PPS\Apple\BC1.2\Samsung
Certificate	CE, FCC, RoHS

### Warning

- With IN mode, Power Elf is intended solely for charging or maintaining 12V leadacid batteries or 12.8V lithium iron phosphate batteries. Do not use it for any other purpose.
- Lead-acid batteries may release flammable and explosive gases. Strictly prohibit smoking or open flames during charging.
- To minimize damage to the Power Elf's wires and plugs, please disconnect the plug instead of pulling the wires forcibly when disconnecting.
- 4. Using non-compliant delay wires may cause fires or accidents that harm people.
- 5. Do not use the charger, Power Elf, or wires if they are damaged.
- Do not disassemble the Power Elf as it may cause battery malfunction or fire, leading to safety accidents.
- If you need to clean the Power Elf, please ensure that it is disconnected from the power source.
- Avoid charging batteries through computer/laptop USB ports to prevent damage to the computer.

### Warranty

The product is warranted for 1 year from the date of purchase. The manufacturer does not provide warranty for the following issues:

- 1. Damage caused by using the product beyond its specifications, in extreme temperatures, or in inappropriate environments.
- 2. Disassembly of the product.
- 3. Damage to the product, wires, or plugs.
- 4. Inability to provide proof of purchase or the product being beyond the warranty period.