# Outdoor smart solar powered box

Model: SF-BOX3030DC4POE-LITIO User manual Ver. 1.0

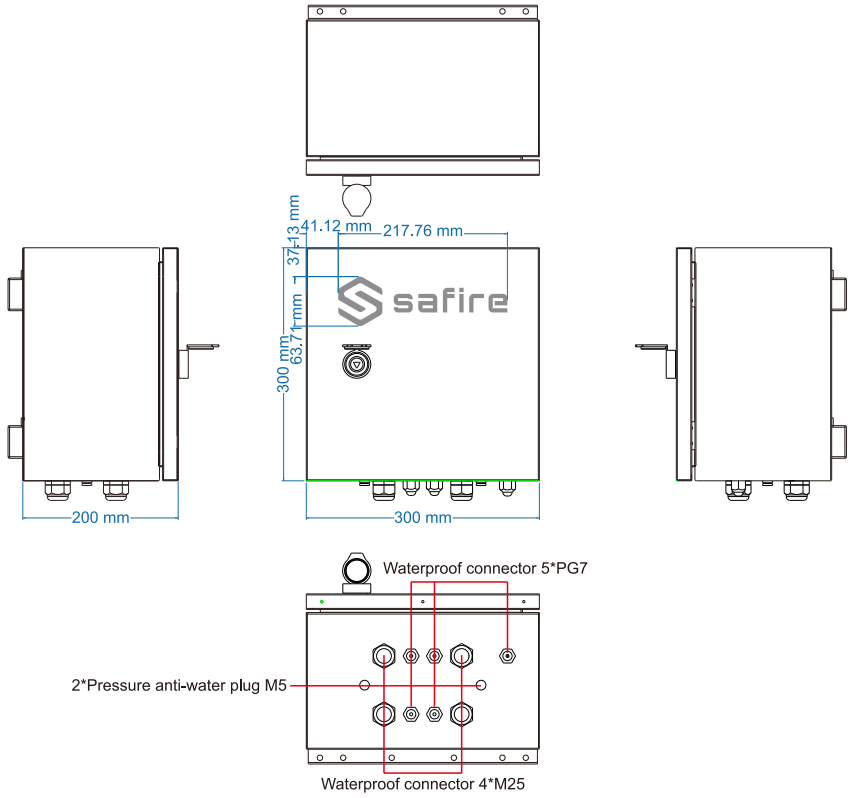
## Overview

It is an outdoor smart solar powered box, powered by solar battery, with MPPT controller, PoE switch, circuit-breaker, surge arrester ,2.4 inch LCD screen inside.
It can be applied for surveillance monitoring, forest monitoring, etc.

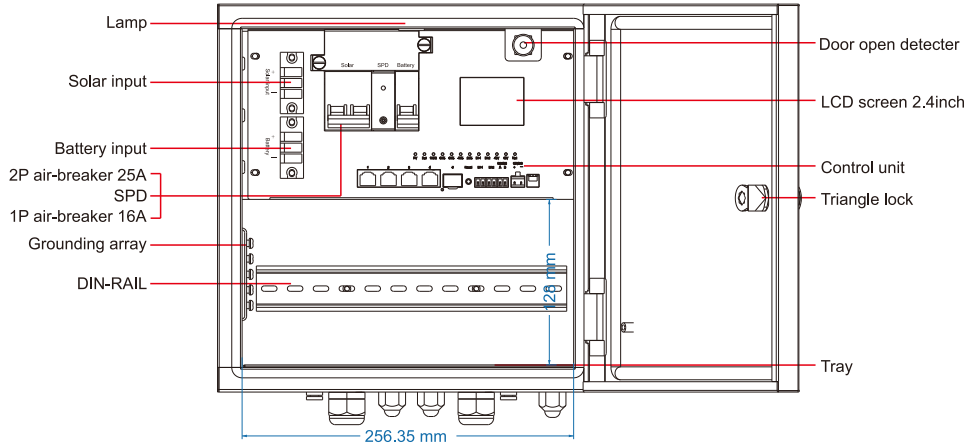
## Feature

- Solar input <DC 45V, the input voltage must be greater than battery;
- Provide DC12V 1 channel power output, can remotely control, detect the output voltage and current;
- With switch supports 4*10/100/1000Mbps PoE downlink ports, 1*1000Mbps SFP uplink slots;
- With MPPT controller, connected the solar battery and charge the storage battery;
- The box adopts waterproof, anti-rust treatment, suitable for long time outdoor use.

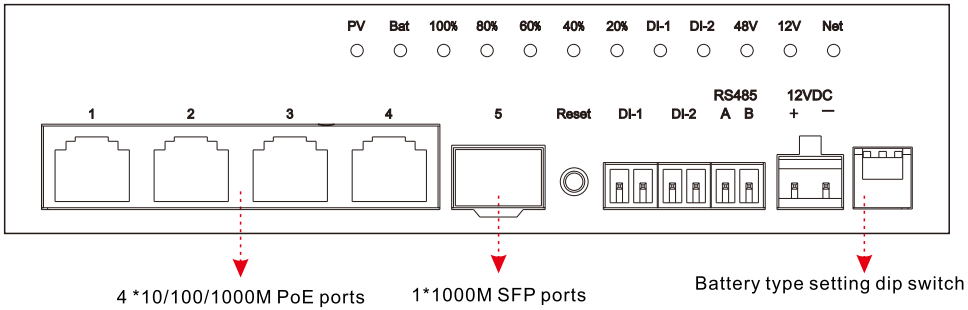
## Structure dimension




## Panel diagram




## Control unit and switch



## Package list

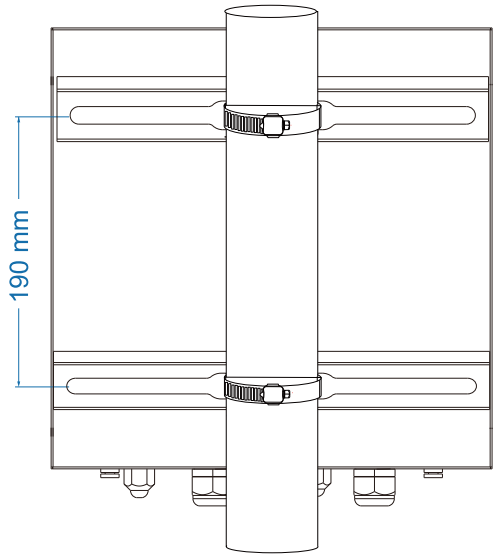
Please check the following items before installation, if any missing, please contact your local dealer.

| | |
|---|---|
| Outdoor smart solar powered box | 1pc |
| User manual | 1set |
| Hose clamp | 1set |

## Installation

● Installation guide

As below, fix the box onto the pole with two hose clamps, then tighten the screw on the clamp




● Configure devices

Use one Ethernet cable to connect the RJ45 port of this device to the RJ45 port of the computer. The default IP is 192.168.1.89. Please set the computer's IP to 192.168.1.88 and set the subnet mask to 255.255.255.0. You can use the "UDP" tool software to search for devices, modify their IP addresses, and modify their server IP addresses.
Please contact your dealer for the UDP tool software and usage instructions.

## Specification

| Item | | Specification |
|---|---|---|
| Power input | Solar input | Solar power input, <45VDC (must greater than storage battery voltage) |
| | Battery | DC12V (customer provide) |
| Booster | Booster | DC12V to DC53.5V, 120W |
| Circuit breaker | Circuit breaker | DC 2P 25A*1; DC 1P 16A*1 |
| SPD | SPD | DC 2P 20KA |
| Switch parameter | Switch port | 1~2ports: 10/100/1000Base-T 90W PoE RJ45(support IEEE 802.3 af/at/bt ), 3~4ports: 10/100/1000Base-T 30W PoE RJ45(support IEEE 802.3 af/at ), 5 port:1000M SFP port |
| | Consumption | Self-consumption<10W, PoE output 110W max. |
| Control unit | DC output | DC12V output 1 channel; support for remote control of single channel; support shows the single circuit voltage and the current value |
| | RS485 | Standard RS485 interface |
| | Alarm input | 2 channels, The first channel is default door opening detection |
| | Reset Key | >5S long press: restore factory settings |
| LCD screen | LCD screen | Size:2.4 inch |
| | | Resolution ratio:320*240 |
| MPPT controller | MPPT controller | Battery voltage: 12V; Solar input voltage: <45V; MPPT efficiency: >99%; Rated discharge current: 10A; Rated charge current: 10A |
| Operating environment | Operating temperature | -20℃~70℃ |
| | Storage temperature | -40℃~85℃ |
| | Humidity (no condensation) | 0~95% |
| Structure | Dimension(H×W×D) | 300×300×200mm |
| | Material | Metal |
| | Color | White |
| | Net-weight | 10kg |