Outdoor smart solar/AC box

Model: SF-BOX5038DUAL8POE-UPS

User manual V 1.0

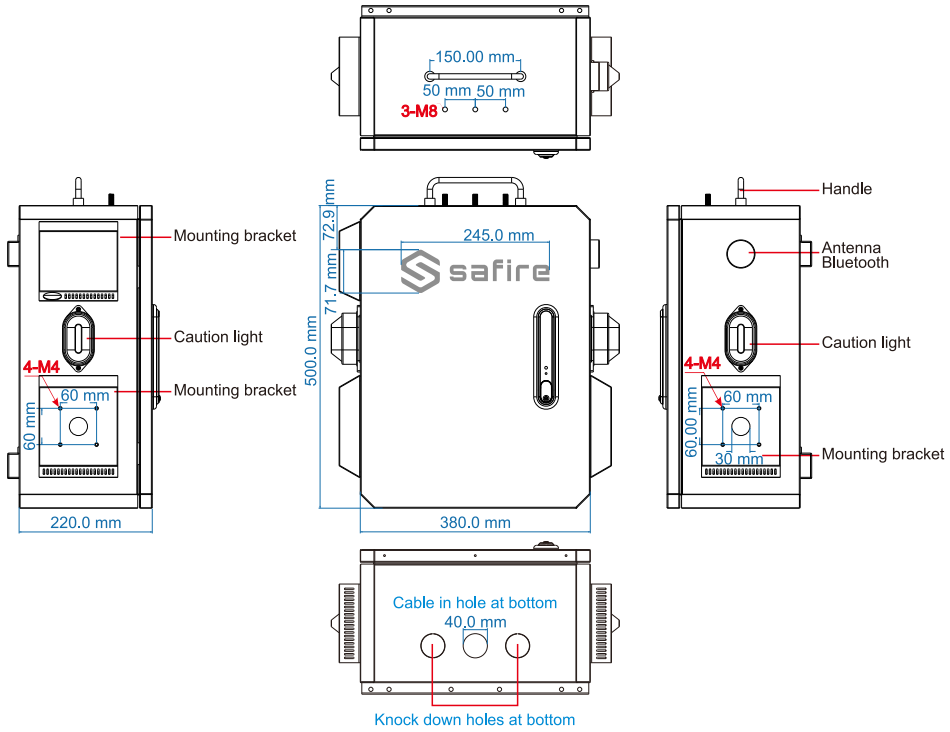
Overview

It is an outdoor smart solar/AC box, powered by solar battery and AC, with power module, PoE switch, MPPT, bluetooth module, circuit-breaker, surge arrester inside.
It can be applied for surveillance monitoring, forest monitoring, etc.

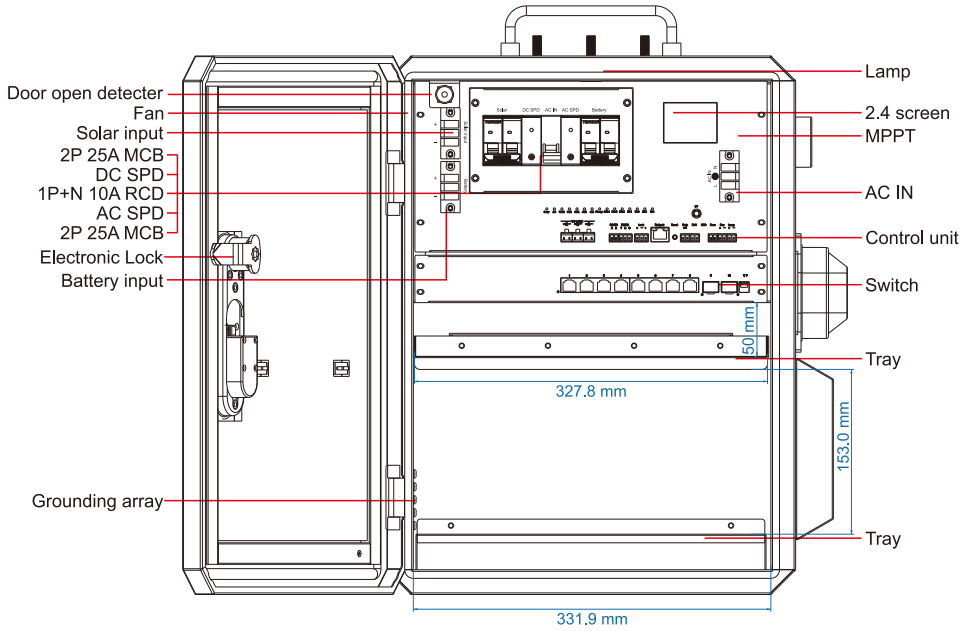
Feature

- Support AC220V power, solar, battery power input, default solar priority;
- Support DC12V battery, can use AC or solar charge the battery;
- Provide 3 channels DC12V power output, can remotely control, detect the output voltage and current;
- With 8*10/100/1000M PoE downlink ports and 2*1000M SFP uplink ports switch;
- The switch provides 2 modes of Default and VLAN to adapt to various complex environments;
- 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.

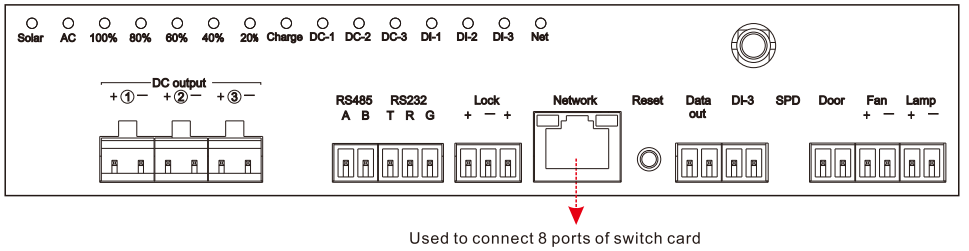
Structure dimension



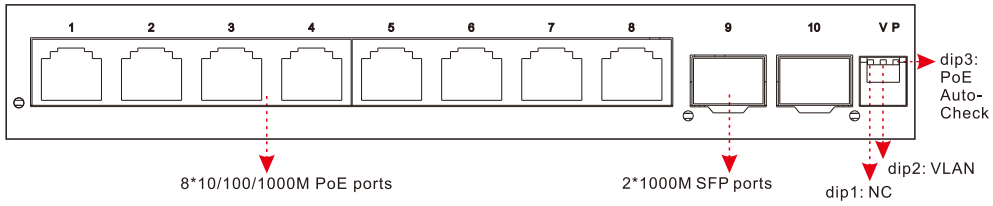
Panel diagram



Control unit



PoE switch



Attention 1:
V:VLAN: 1~8 ports are isolated, only can communicate with the uplink ports; restrain the network storm; close flow control.
P:PoE Auto-Check: PoE Auto-Check function is open/ closed by dip switch.
The switch always auto detect 1~8 ports whether frozen, if some ports are frozen, the switch will restart them, but other ports are unaffected.

Attention 2:
Opening method: Press the dip switch, the channel function started; you can turn on one or more functions.

Package list

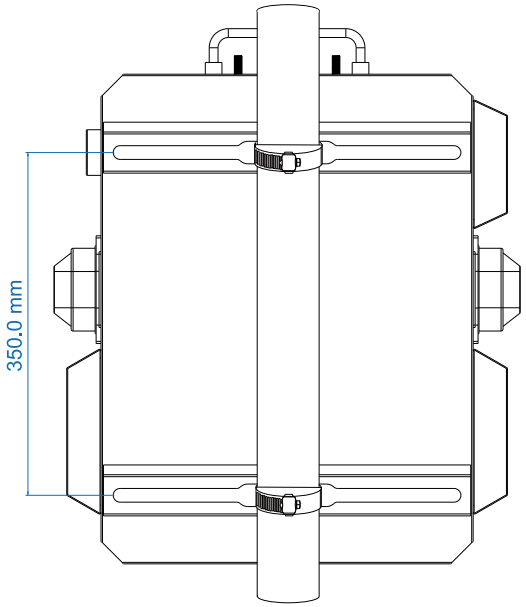
Please check the following items before installation,if any missing , please contact your local dealer.

User manual	1pc
Outdoor smart solar/AC box	1pc

Installation

Installation guide

If you need to hold the pole to install, as shown in the figure below, install the two holding holes through the pole to the rear slot; then tighten the mounting screws to the pole to fix it.



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 "JL_UDP" tool software to search for devices, modify their IP addresses, and modify their server IP addresses.
Please contact your dealer for the JL_UDP tool software and usage instructions.

Specification

Item		Specification
Power input	Solar input	Solar battery input, <100VDC (must greater than storage battery voltage)
	AC input	100-240VAC input, 50/60Hz
Battery	Battery	DC12V(customer provide)
Voltage booster	Voltage booster	DC12V to DC54V, 200W
Power module	Power module	AC 220V input, DC 52V output, 300W
Circuit breaker	Circuit breaker	1*AC 1P+N 10A; 2*DC 2P 25A
SPD	SPD	1*AC 1P, 20KA 1*DC 1P, 20KA
PoE switch parameter	PoE switch ports	Ports 1~8 10/100/1000Base-T 30W PoE RJ45(IEEE 802.3af/at); Ports 9~10 1000Base-X SFP
	Consumption	Self consumption<5W, PoE output 120W max.
Control unit	DC output	Controllable 3 channels, DC output 12V, 3A (with backup power)
	RS232/RS485	Standard Rs232/RS485 interface
	Alarm input	3 channels, The first channel is default door opening detection;
	10/100 Network port	1*10/100Base-TX
	Reset Key	>5S long press: restore factory settings
LCD screen	LCD screen	Size:2.4 inches(touched screen); Resolution ratio:320*240
Lock	Lock	Electronic lock, 12V, can remotely unlocked
MPPT controller	MPPT controller	Battery voltage: 12V/24V; Solar input voltage: <100V; MPPT efficiency: >99%; Rated discharge current: 20A; Rated charge current: 20A
Operating environment	Operating temperature	-20℃~70℃
	Storage temperature	-40℃~85℃
	Humidity (no condensation)	0~95%
Structure	Dimension(H×W×D)	500×380×220mm
	Material	Metal
	Color	White
	Net-weight	25kg