Outdoor smart solar powered box
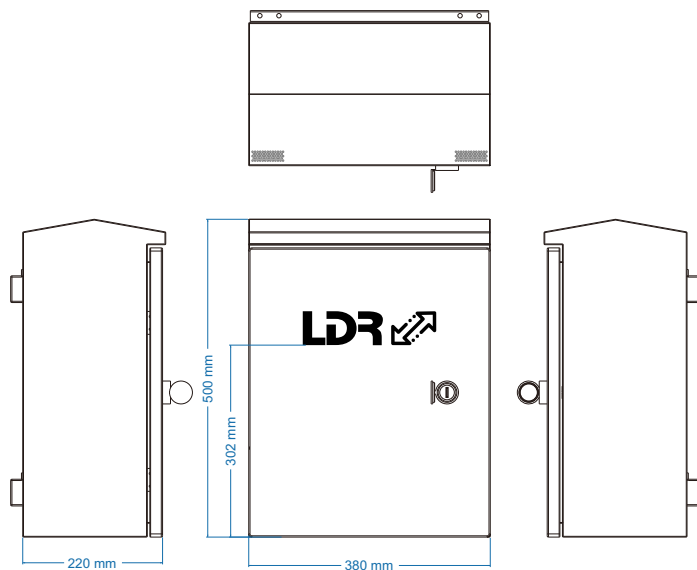
User manual
Ver. 1.0

■ Overview

It is an outdoor smart solar powered box, powered by solar battery, with MPPT controller, PoE switch, circuit-breaker, surge protector inside.
It can be applied for surveillance monitoring, forest monitoring, etc.
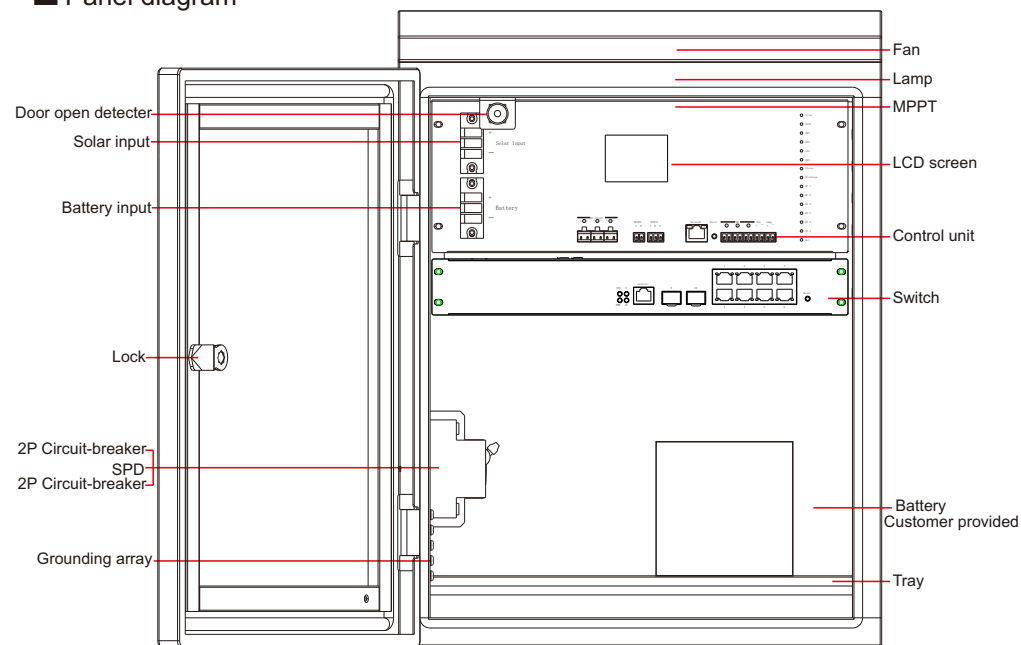
■ Feature

- Solar power input, input <100VDC;
- Provide DC12V 3 channel power output, can remotely control, detect the output voltage and current;
- Supports 2 ports PoE power each up to 90W, 6 ports PoE power each up to 30W;
- With MPPT controller, connected the solar battery and charge the storage battery;
- Supports L2 management, such as QoS, VLAN, MSTP, Multi-broadcast, ports management and PoE management;
- The box adopts waterproof, anti-rust treatment, suitable for long time outdoor use;
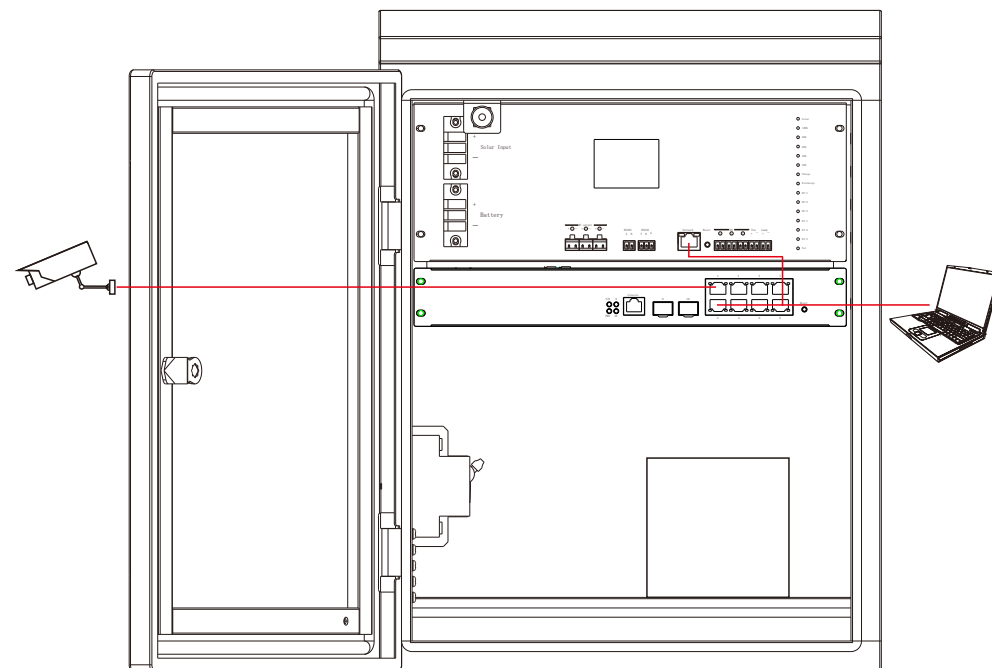
■ Application

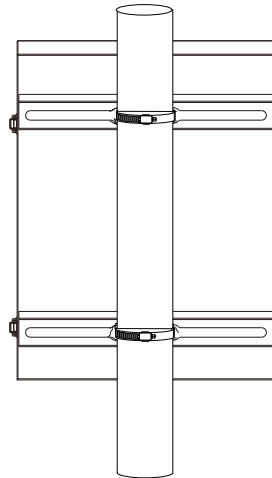### ■ Panel diagram

■ Application

■ Package list

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

Outdoor smart solar powered box	1pc
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■ 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 an 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 supply	Solar input	Solar battery input, <100VDC (must greater than storage battery voltage)
	Battery	DC12V (customer provided)
Circuit breaker	circuit breaker	DC 2P 16A
Network switch	Network switch	1~2ports: 10/100/1000Base-T 90W PoE RJ45(IEEE802.3bt, also support IEEE 802.3 af/at) 3~8 ports: 10/100/1000Base-T 30W PoE RJ45(IEEE802.3af/at)
Control unit	DC output	3channels,DC output 12V
	RS232	Standard RS232 interface
	RS485	Standard RS485 interface
	Alarm input	3 channels, The first channel is default door opening detection;
	LCD screen	size: 2.4#(no touched screen)
		resolution ratio:320*240
	10/100 Network port	1*10/100Base-TX
	Reset Key	>5S long press: restore factory settings
Connector	MPPT controller	Battery voltage: 12V/24V/Auto
		Solar input voltage: <100V
		MPPT efficiency: >99%
		Rated discharge current: 20A
Operating environment	Operating Temperature	-20℃~70℃
	Storage Temperature	-40℃~85℃
	Humidity	0~95%
Structure	Dimension(H×W×D)	500×380×220mm
	Material	Metal
	Colour	White
	Net-weight	15kg