Outdoor smart solar powered box RCLDR-DB-QU3082SPG(#2.4 inch LCD no touched screen)

❖ Overview

It is an outdoor smart solar-powered box, powered by solar battery, with MPPT controller, Smart control unit, L2 Managed Gigabit Ethernet PoE Switch, Fan, circuit-breaker, surge protector, #2.4 inch LCD no touched screen inside.

It can be applied for surveillance monitoring, forest monitoring, etc.

❖ Features

✧ Solar power input, input <100VDC.

✧ Provide DC 3 channel power output, can remotely control, and detect the output voltage and current.

✧ Supports 2 port PoE power each up to 90W, and 6 port PoE power each up to 30W.

✧ Supports L2 management, such as QoS, VLAN, MSTP, Multi-broadcast, ports management and PoE management.

✧ With the MPPT controller, connect the solar battery and charge the storage battery;

✧ The box adopts a waterproof, anti-rust treatment, suitable for long time outdoor use.

✧ With the software platform, can check and control remotely.

❖ Hardware specification

Box：

Parameter	Specifications
Solar input	Solar battery input, <100VDC (must be greater than storage battery voltage)
Battery	DC12V (customer provide)
DC output	DC output 3 channel, can detect voltage and current
RS232	Standard RS232 interface
RS485	Standard RS485 interface
Alarm input	3 channels, dry-connector input channel 1 is default for the door open/closed detected;

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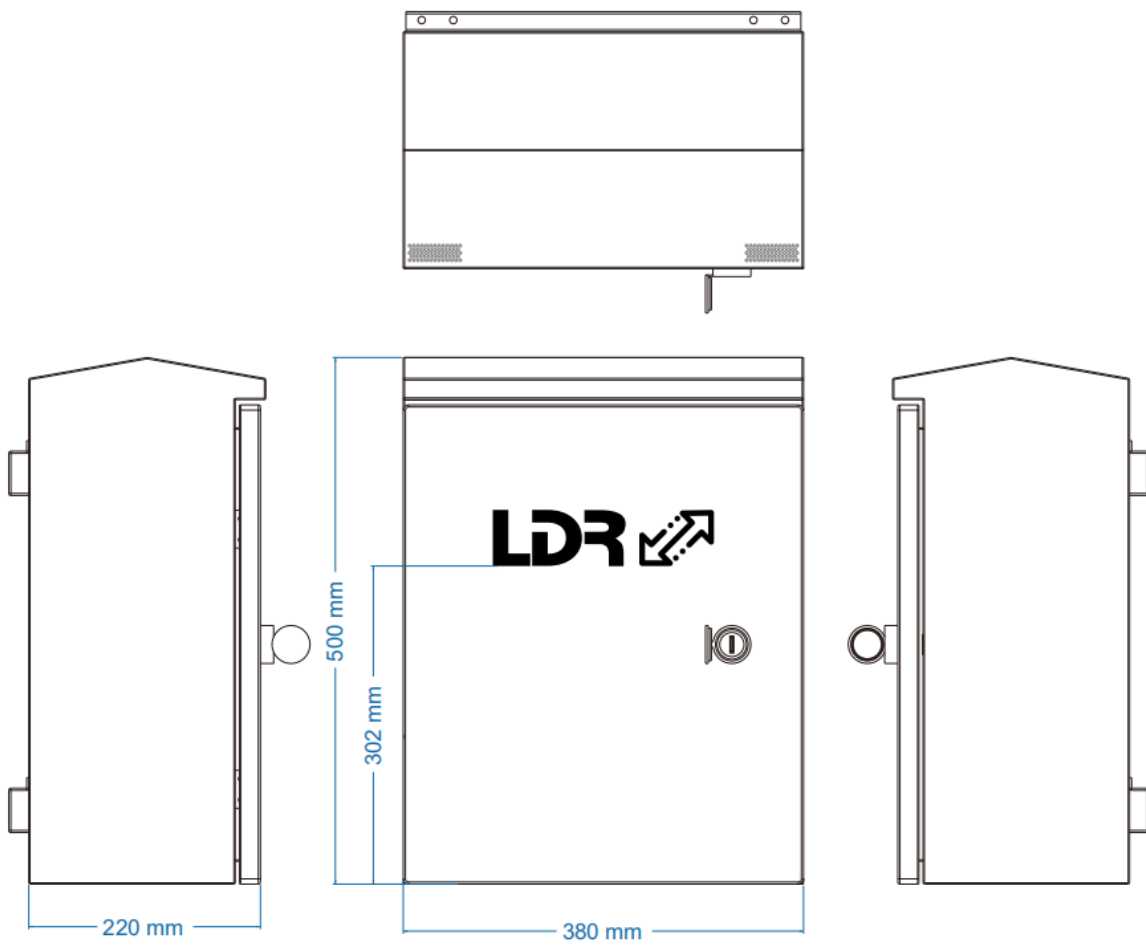| 10/100 network port	1*10/100Base-TX
Reset key	>5s press recovery to factory default
MPPT controller	Battery voltage: 12V/24V/Auto
	Solar input voltage: <100V
	MPPT efficiency: >99%
	Rated discharge current: 20A
LCD screen	Size: #2.4 inch can't touched
	Resolution ratio:320*240
Working temperature	-20℃~70℃
Storage temperature	-40℃~85℃
Humidity	0~95% (No condensation)
Dimension(H×W×D)	500mm×380mm×220mm
Material	Metal
Colour	White
Net-weight	15KG

Switch：

Parameter	Specifications
Consumption	Self-consumption<15W, PoE output max 180W
Downlink ports	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)
Uplink ports	Ports 9~10 1000Base-X SFP
Console port	RJ45 to the serial port (38400,8,N,1)
Reset key	Short press restart, ＞5s press recovery to default
Cable and distance	Use cat5e/6, 100m max.
Standard	IEEE802.3, IEEE802.3u, IEEE802.3z
Switch fabric	20Gbps
Though put	14.88Mpps
Buffer	1M
MAC address table	8K
Indicator	Power: 1 *red; Downlink 1~8: On RJ45 green LEDs indicate Link/Act, yellow LEDs indicate PoE Uplink9, 10: On RJ45 green LEDs indicate Link/Act

❖ Structure

LDR

- Door open detecter
- Solar input
- Solar Input
- Battery input
- Battery
- Lock
- 2P Circuit-breaker
- SPD
- 2P Circuit-breaker
- Grounding array

- Fan
- Lamp
- MPPT
- LCD screen
- Control unit
- Switch
- Fiber tray 4*SC
- Battery Customer provided
- Tray