ADLIS WEIYIN

We Don't Make The Future, We Make The Future Better

ADLIS/WEIYIN
CORPORATION

DISINFECTION
UV light in trash bin
working by timer

SOLAR ENERGY
Powered by clean solar energy

USB CHARGER
charge your phone
via USB-24hours per day

INDUCTIVE CHARGER
Equipped with wireless
chargers

FILLED ALARM
LED strip light changes
from green to red color
when trash is filled

ECOLOGY
Decreasing energy consumption
and thus CO2 emission
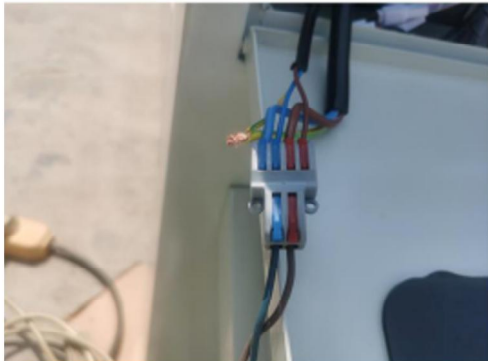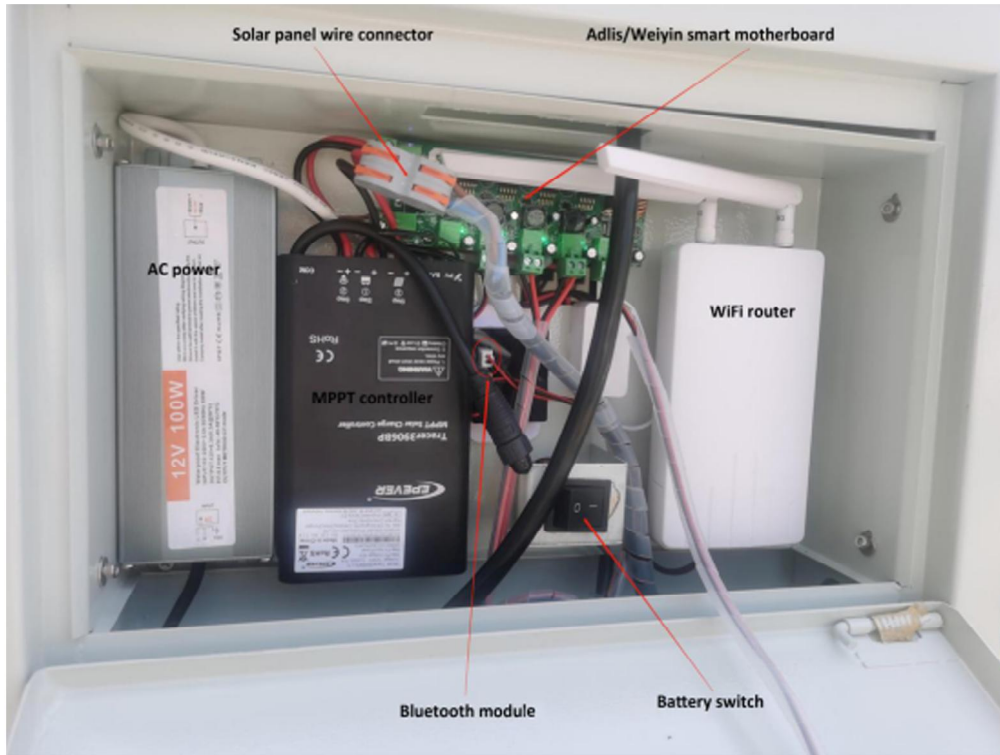
WIFI INTERNET
Free Internet access
while charging

LED IIGHT
Embient light works
automatically after sunset.

Solar panel wire connector

Adlis/Weiyin smart motherboard

AC power

WiFi router

MPPT controller

Bluetooth module

Battery switch

Assembly and Configuration

1.When the cargo is on the site, open the top lid of wooden package first and check whether all the parts inside are well laid. If any parts are sloping after transportation, make sure they are put in good position then open the sides of the wooden package.

2.When opening the foam and film outside the products, be careful in case the knife scratches the products inside.

3.Assemble the products according to Adlis/Weiyin installation manual.

4.After turning on the battery switch, take off the film covering the solar panel.

5.Some products need to connect the solar panel wires, pls make sure the different colors are connected in the right way, red and brown: positive, black and blue: negative.

6.Some products have hybrid energy, connect AC power in matching color to the wires. Brown: positive,blue: negative. Make sure about waterproof issue when connecting AC electricity inside the products.

7.For some products with more complicated wire connection, follow the stickers on the wires and connect in matching sequence, "1-1", "2-2", "3-3","4-4","5-5", "6-6", "7-7".

8.If everything is connected correctly, all the indicators inside are in green color, including Adlis/Weiyin smart motherboard. If red color on the motherboard, it means some problem with the load device. If green color on the motherboard, but not working properly, plug out and in several times in case the plug gets loose during transportation.

9.For more help and support, pls contact Adlis/Weiyin team via sales@solarbenchchina.com.

Diagram Of Wire Connection

MPPT CONTROLLER
DC12~24V
10A

CE
RoHS

℃ PV BATT + - + - ⊘ com

Solar panel

Battery

ADLIS/WEIYIN SMART MOTHERBOARD

output

12V5A — LED light/UV light
12V3A — USB charger
12V3A — Wireless charger
12V3A — Bluetooth/WiFi router
5V3A — Mosquito repellent/broadcast

AC power

input
DC12-24V
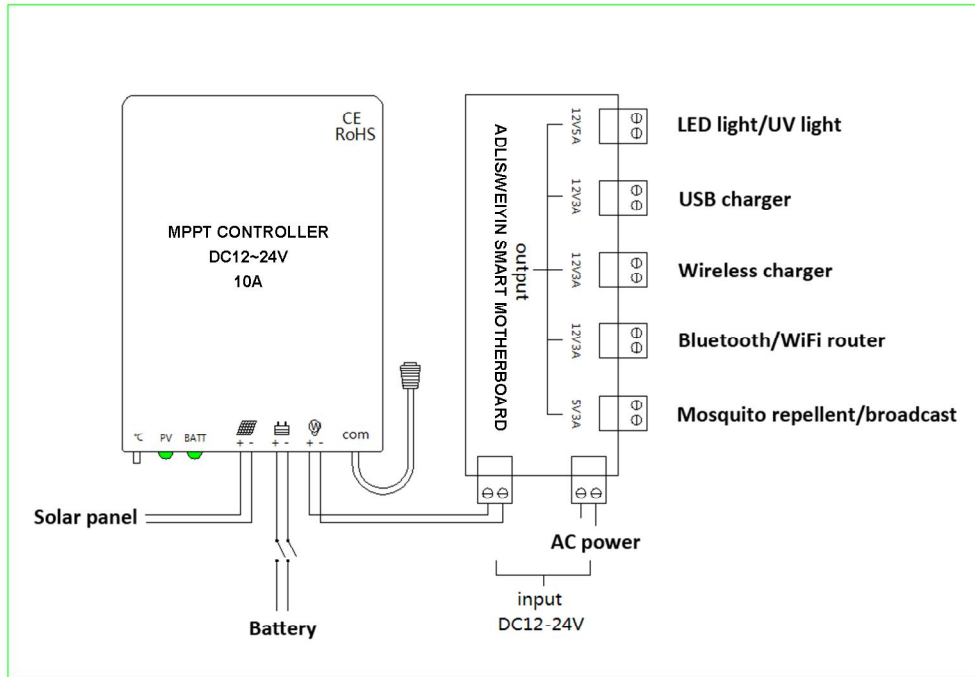
Load Working Mode

Solar bench/table/bus shelter/charging station

1) Embient light is controlled by light indicator and PIR sensor. It works automatically after sunset and switches on when people go nearby. Working mode can be changed on APK with serial communicator. See detailed instruction on Annex I.

2) USB chargers are compatible to all mobiles, while wireless chargers are only applicable to some mobile phones, inside which has its own wireless receiver, such as iphone 8,8 plus,x, xs, max, 11, 12, Huawei Mate 30, Mate 30 Pro, P 30 Pro, P40 pro, and Samsung etc.

3) Bluetooth speaker connects with mobile with name "WY".

4) WiFi router works with IOT 4G sim card or local network cable. WiFi name: 4G-CPE-**** Password 1234567890

Solar trash bin

5)LED light is green color and changes to red color when the trash fills up.

6)Automatic sensor opening door works automatically when the system is powered on.

7)UV disinfection light works with timer or optional Adlis/Weiyin smart box.

OPTIONAL MORE FEATURES

LED Indicators

Indicator	Color	Status	Instruction
PV	Green	On Solid	PV connection normal but low voltage(irradiance) from PV, no charging
	Green	OFF	No PV voltage(night time) or PV connection problem
	Green	Slowly Flashing(1Hz)	In charging
	Green	Fast Flashing(4Hz)	PV Over voltage
BATT	Green	On Solid	Normal
	Green	Slowly Flashing(1Hz)	Full
	Green	Fast Flashing(4Hz)	Over voltage
	Orange	On Solid	Under voltage
	Red	On Solid	Over discharged
	Red	Fast Flashing(4Hz)	Battery Overheating Low temperature
Charging(green) and battery indicator(orange)flashing simultaneously			System voltage error※

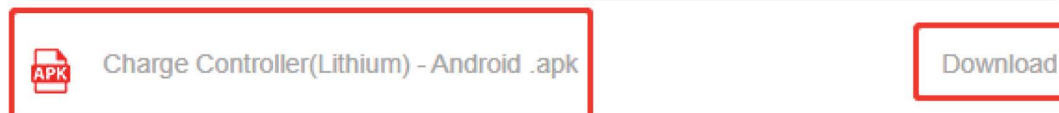※When the battery type is Lithium Battery, the controller do not recognize the system voltage automatically.
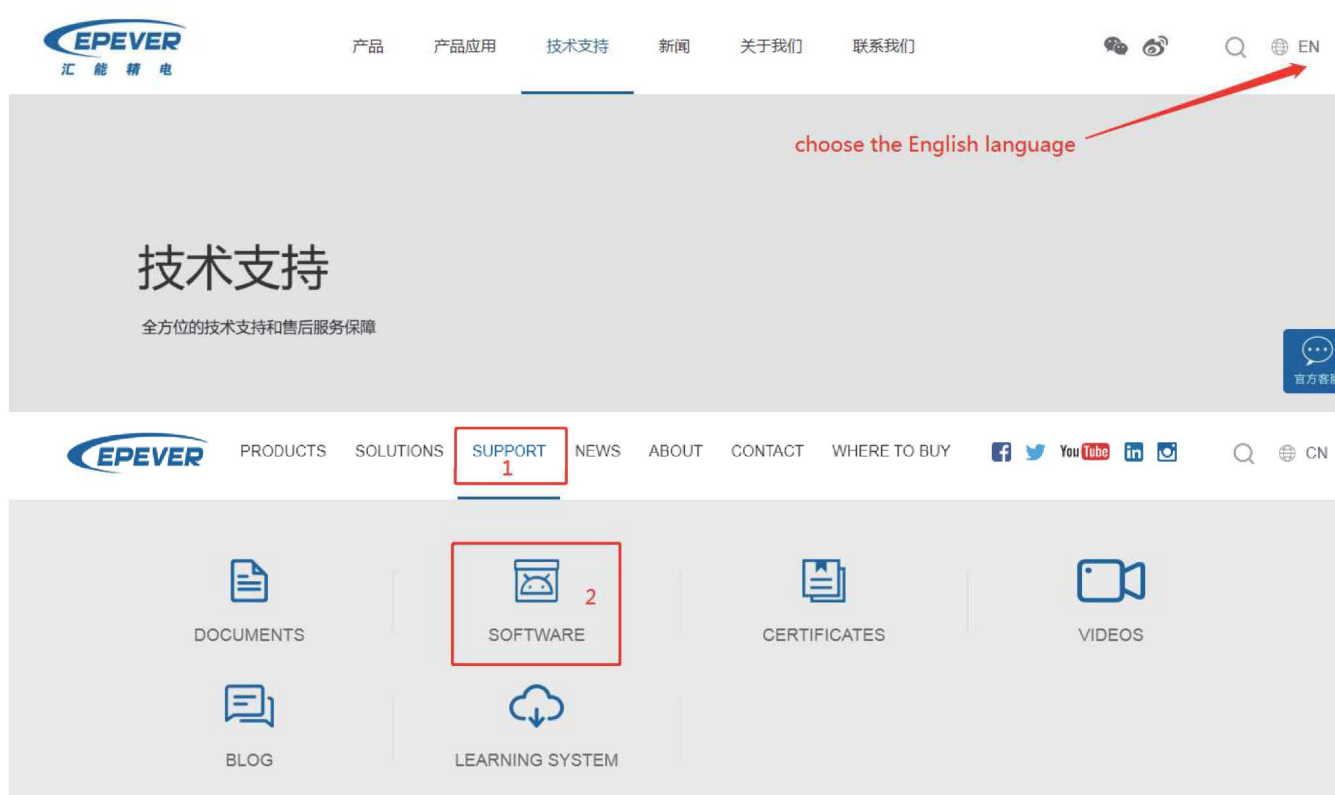
Trouble shooting

No.	Faults	Trouble shooting
1	PV indicator is off during daytime with enough sunshine.	1. PV cables are loose. 2. PV and battery cables are connected oppositely. 3. Solar panel is damaged.
2	Both PV and battery LED indicator are off.	1. Check during daytime whether PV indicator works properly. 2. Ensure the problem is battery after confirming solar panel is working properly. 3. Use a multimeter to check whether battery is low electricity, if yes, use a special charger to charge and activate the battery. If the battery cannot be activated, it is damaged and needs to be replaced.
3	Battery LED indicator is green fast Flashing	Battery over voltage, pharameters of the controller needs to be reset, see Annex I
4	Battery LED indicator is red all the time	Battery over discharged due to no enough sunshine, and will get back to normal in sunny weather. In case of continuous rainy weather, it is recommended to use a special charger to charge the battery.
5	Battery LED indicator red flashing	Battery overheating, the controller will automatically turn the system off, till the temperature reduce below 50° C.
6	Load device has no output voltage	1. Reset timer. 2. Check the load cable connection and clear the short circuit fault point 3. Restart the PV controller.
7	LED light or LED advertising display not working in the evening	1. Check and confirm all wires and ports are connected tightly. 2. Check and ensure human body sensor is not damaged. 3. Low battery, follow step 4.
8	USB does not charge	USB port is damaged, change the new one.
9	WiFi disconnected	1. Check and ensure WiFi device is with SIM card inside. 2. Check and ensure SIM card is with sufficient flow.
10	Bluetooth module with no sound or not working properly	1. Low battery, follow step 4. 2. Bluetooth module is damaged and needs to be replaced.
11	Short working time of all components	1. Not enough sunshine, or solar bench is put in the shadow. 2. Solar panel is too small and cannot support the load.

Adlis/Weiyin MPPT Controller APK Operation Manual
NOTE:Please download APK on the web: http://www.epsolarpv.com.cn/downsoft.html

choose the English language

Charge Controller(Lithium) - Android .apk

Download

Monitor and configure EPEVER solar charge controllers with RS485 communication feature via eBox-WiFi-01 or eBox-BLE-01 on Android devices for the lithium battery.

Compatible Products:

Tracer-AN, Tracer-BP, Tracer-BPL, TRIRON, XTRA


ChargeContro...

1、 Make sure the battery power is switched on and the wires are all connected correctly to the controller.

2、 Connect the controller and serial communicator, power indicator on the serial communicator is on when connected correctly.
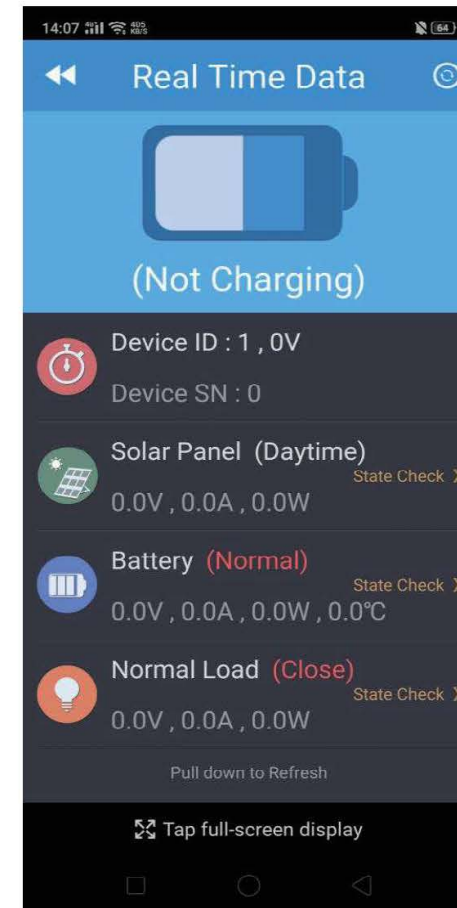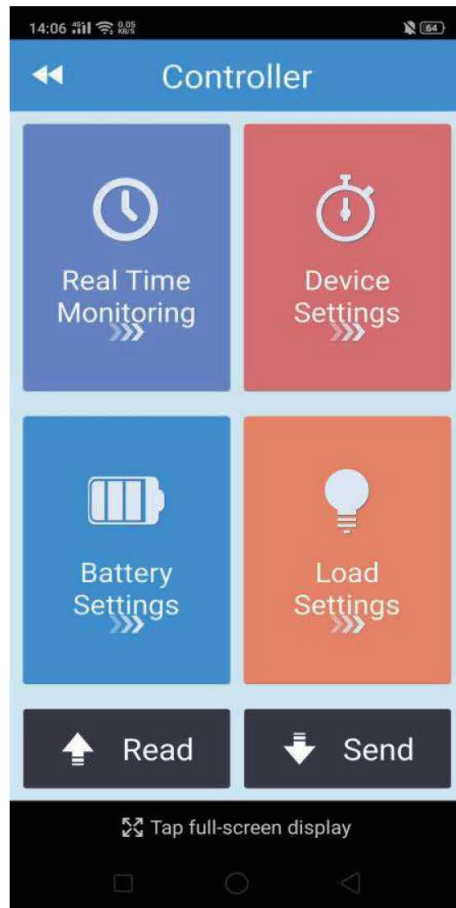

3、 Open APK on phone and select the corresponding communication method of the communicator. For WIFI option, make sure mobile is connected on WiFi. For Bluetooth option, search bluetooth signal then connect. Link indicator on the serial communicator is on when connected correctly.
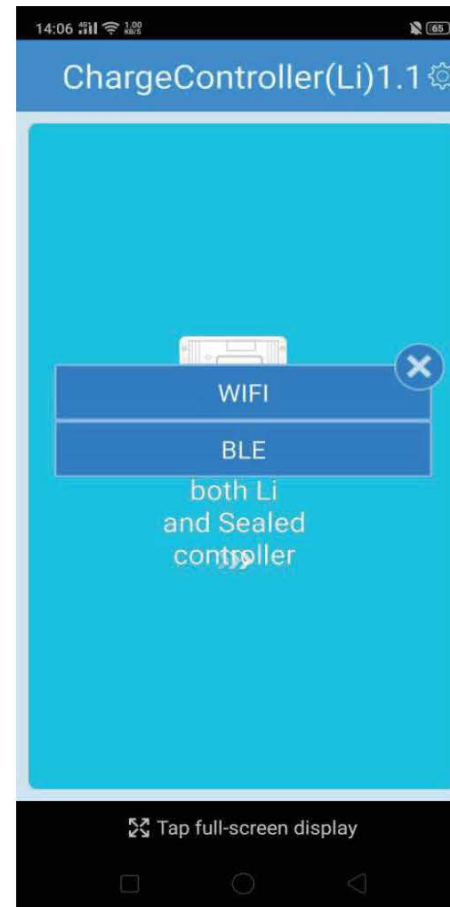
4、Enter the control page.

5、Real-time monitoring
Read real-time data of power supply system and system operation status

ChargeController(Li)1.1

Controller
both Li
and Sealed
controller

Tap full-screen display

Controller

Real Time
Monitoring

Device
Settings

Battery
Settings

Load
Settings

Read   Send

Tap full-screen display

Real Time Data

(Not Charging)

Device ID : 1 , 0V
Device SN : 0

Solar Panel (Daytime)   State Check ›
0.0V , 0.0A , 0.0W

Battery (Normal)   State Check ›
0.0V , 0.0A , 0.0W , 0.0℃

Normal Load (Close)   State Check ›
0.0V , 0.0A , 0.0W

Pull down to Refresh

Tap full-screen display

6、Device parameters

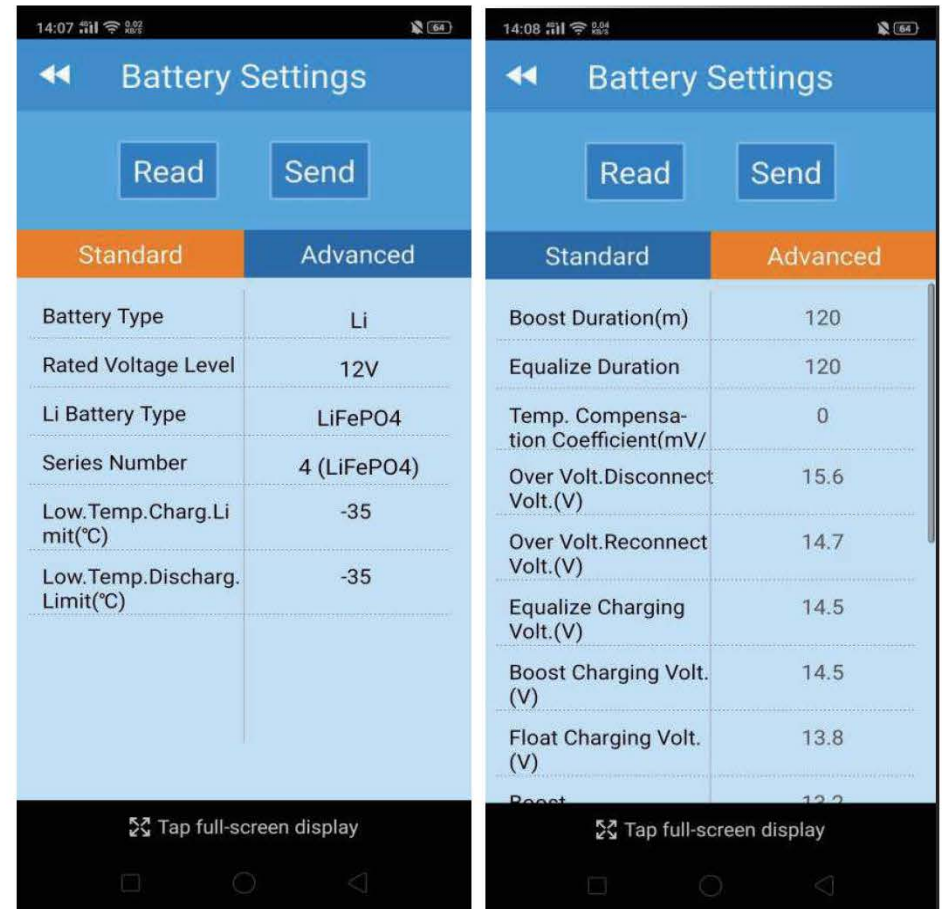Read and input system data, users only need to update the corresponding regional time to complete the clock setting of the controller;
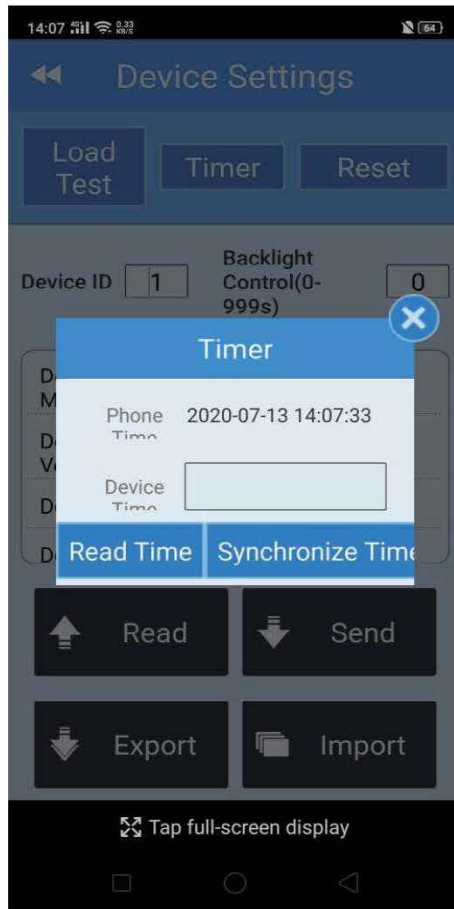
7、Battery setting

Configure the battery parameters currently used. Read the parameters of the controller before changing the parameters, and then change the required parameters (please do not change the parameters without checking with the factory).
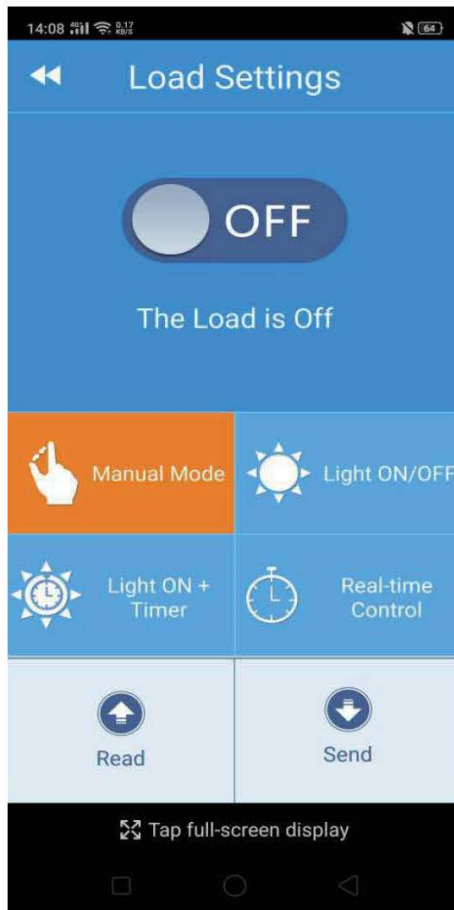

Device Settings screen with Timer dialog:
- Load Test | Timer | Reset
- Device ID: 1 | Backlight Control(0-999s): 0
- Timer — Phone Time: 2020-07-13 14:07:33 | Device Time: [ ]
- Read Time | Synchronize Time
- Read | Send
- Export | Import
- Tap full-screen display

Battery Settings (Standard)

Standard	Advanced
Battery Type	Li
Rated Voltage Level	12V
Li Battery Type	LiFePO4
Series Number	4 (LiFePO4)
Low.Temp.Charg.Limit(℃)	-35
Low.Temp.Discharg.Limit(℃)	-35

Tap full-screen display

Battery Settings (Advanced)

Standard	Advanced
Boost Duration(m)	120
Equalize Duration	120
Temp. Compensation Coefficient(mV/	0
Over Volt.Disconnect Volt.(V)	15.6
Over Volt.Reconnect Volt.(V)	14.7
Equalize Charging Volt.(V)	14.5
Boost Charging Volt.(V)	14.5
Float Charging Volt.(V)	13.8

Tap full-screen display

8、Load setting

 Four working mode for choice.

1)Manual Mode - Manual control On/Off switch

2)Light ON/OFF - automatically off during the day and automatically on at night, when with sufficient battery electricity
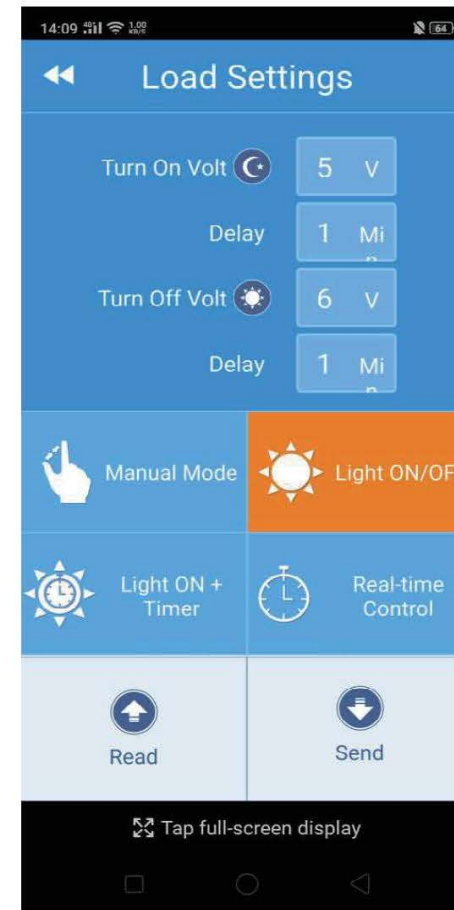
3)Light on + timer
Voltage of light on/off control and controller time needs to be configured first, then working hours. Work Time 1 refers to how many hours the light is on after dark, and Work Time 2 refers to how many hours light is on before dawn. This time period needs about 4 days for the controller to automatically adjust. The longer the period, the more accurate it is. (Notice: timer needs to be reconfigured when the battery runs out of electricity power.)
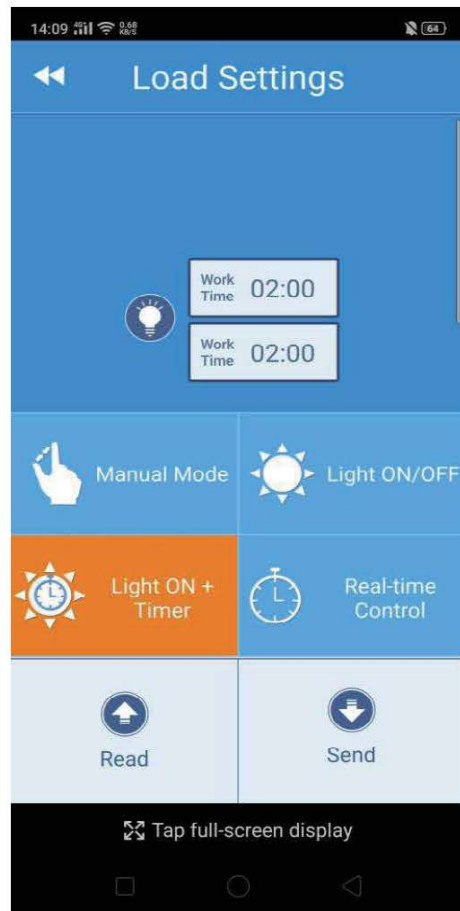
4)Real-time Control - Configure the controller time first, and then working period on 24-hour system, two periods available.(Notice: the timer needs to be reconfigured when the battery runs out of electricity power.)

Notice: Click " Send"after configuring, and click "Read" to double check whether the configuration is recorded correctly.