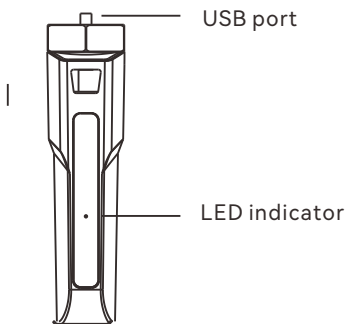




## 1.Installation & Connection

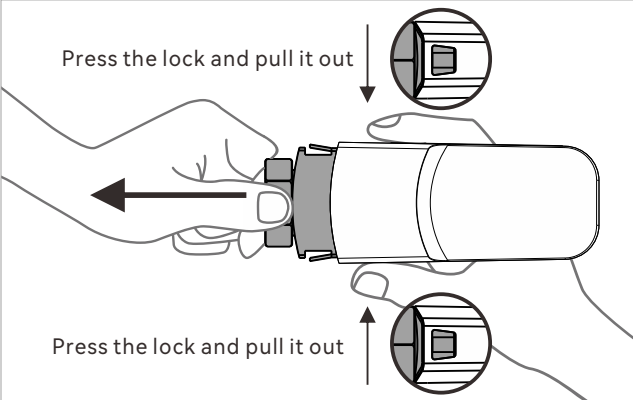
## 2. Create System

### Installation guide

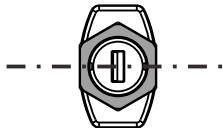
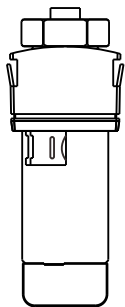


LED indicator status description		
status		description
Green light	flashing	RS232 Communication is normal
	Off	RS232 Communication is abnormal
Blue light	flashing	The network connection is normal
	Off	The network connection is abnormal
Neither of the two color lights are on:		The module is not powered on, or the network connection is abnormal.
Green light and red light flash in alternative		Both network connection and RS232 communication are normal

Press the lock and pull it out

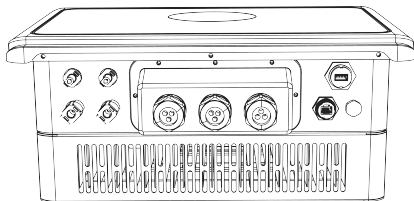
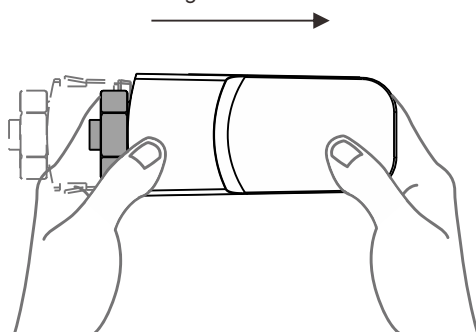


Press the lock and pull it out



Turn the nut revolve to the horizontal position!

Reinstall it according to the direction of the arrow



Insert the module into the VFD USB interface and tighten the hexagon nut clockwise

### (1) Download eSolar Pump app

- For iOS system user, you can download and install the eSolar Pump app in App Store.  
For Android system user, you can download and install the eSolar Pump app in Google Play.
- After installation, please log in with the installer's account number.

### (2) Ensure that the communication parameters of the pump drive set correctly

#### ①Solar Pump Controller (PDS51) :

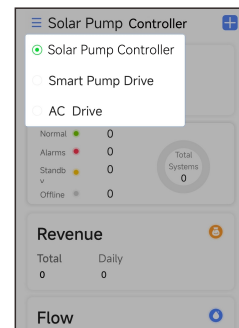
Parameter	Description	Recommended settings
FC.00	RS232 communication address	1
FC.01	Baud rate	5
FC.02	Data format	3

### (3) Ensure if PDS51-4G module connect the service successfully

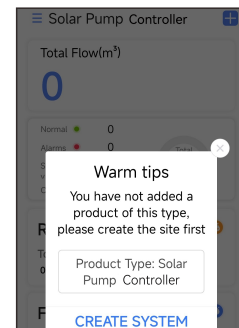
Normally, after the module is powered on, the LED indicator flashes blue and green in alternative. At this time, the network connection and RS232 communication are normal, and the PDS51-4G module is successfully connected the server.

### (4) APP operation process

- Select the corresponding drive series according to the product:  
Enter the APP homepage interface, click the icon in the upper left corner of the homepage, select the corresponding drive series, and enter the drive.  
If the system has not been created for this product series, click "Create System" with the pop-up prompt.



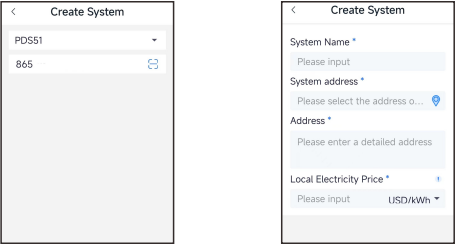
Home page interface



Pop-up prompt interface

## 2. Create System

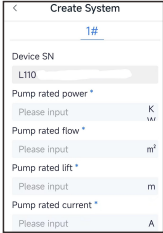
② Add equipment:  
After clicking "Create System" on the homepage interface, add a device by scanning code or manually entering "SN/Module" IMEI.



Adding equipment      Obtaining equipment information

Select the corresponding model according to the product type connected to the module, fill in the site name and the number of devices, and click "Next" to enter the device information . At this time, the SN code of the inverter and other related information are being obtained. The process takes tens of seconds, please be patient.

③ Fill in equipment information:  
After obtaining the drive information, you need to manually fill in the rated power of each drive and the rated flow rate of each pump under the pump system on the interface of adding equipment, and then click "Save" to complete the system creation.

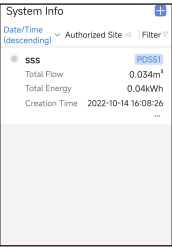


Filling in equipment information

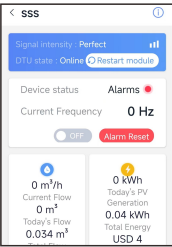
Note:  
If the device information acquisition fails in the second step, it will not jump to the third step.  
There are two main reasons:  
1.The abnormal communication between the module and the drive leads to the failure of equipment information acquisition. It is necessary to check whether the installation of PDS51-4g port is correct and whether the related parameters of PDS51-4g communication are set correctly (baud rate, data bit, check bit, stop bit and slave address).

2.The 4G module is not connected to the server. Check the connection status through the host computer.

④ Check equipment information:  
After creating the system, switch to the site interface, and click the corresponding site to check the relevant information of the equipment under the site.

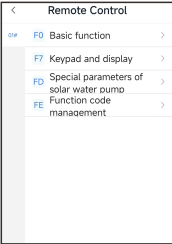


Site selection interface

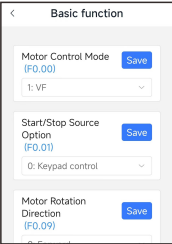


Site status interface

(5) APP remote debugging  
In the site status interface, click the "Parameter Debugging" function box to enter the remote debugging interface. Select relevant parameter groups in the remote debugging interface for debugging settings, and click "Save" after the parameter settings are completed.



Parameter debugging interface



Parameter setting interface