

Solis 5G PLUS Export Power Manager

Installation and Operation Manual

Ver 1.7

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Please adhere to the actual products in case of any discrepancies in this user manual.

If you encounter any problem on the EPM, please find out the EPM S/N and contact us, we will try to respond to your question ASAP.

Ginlong Technologies Co., Ltd.

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1. Introduction

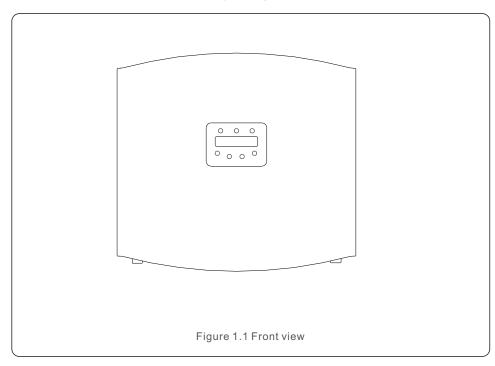
1. Introduction

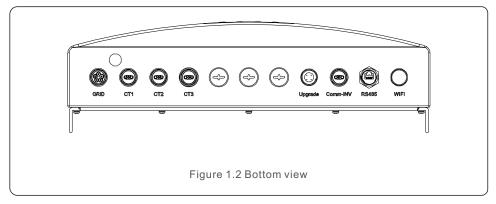
1.1 Product Description

Solis Export Power Manager can monitor and control the backflow power from the inverter to the grid thus providing export power control of inverters. It also has integrated datalogging function as well.

The export power manager is suitable for using with all solar PV grid tie inverters.

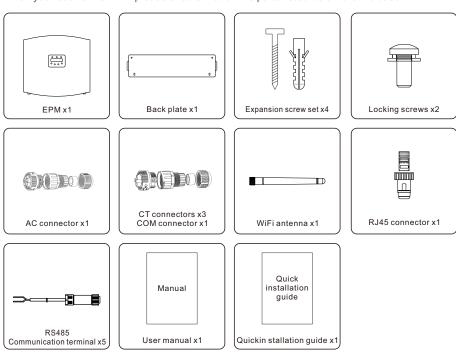
Model: Solis-EPM3-5G-PLUS is for three phase systems.





1.2 Packaging

When you receive the EPM please ensure that all the parts listed below are included:



If anything is missing, please contact your local Solis distributor.

.2.

2. Safety Instructions

2.1 Safety Symbols

Safety symbols used in this manual, which highlight potential safety risks and important safety information, are listed as follows:



WARNING:

WARNING symbol indicates important safety instructions, which if not correctly followed, could result in serious injury or death.



NOTE:

NOTE symbol indicates important safety instructions, which if not correctly followed, could result in some damage or the destruction of the inverter.



CAUTION:

CAUTION, RISK OF ELECTRIC SHOCK symbol indicates important safety instructions, which if not correctly followed, could result in electric shock.



CAUTION:

CAUTION, HOT SURFACE symbol indicates safety instructions, which if not correctly followed, could result in burns.

2.2 General Safety Instructions



WARNING:

Electrical installations must be done in accordance with the local and national electrical safety standards.



WARNING:

It is forbidden to insert or unplug the CT cable with power on. If accidentally disconnected the CT cable, please turn off the main AC switch and wait for 5 mins before reconnect the cable.



CAUTION:

Risk of electric shock. Do not remove cover. There is no user serviceable parts inside. Refer servicing to qualified and accredited service technicians.

CAUTION:



Risk of electric shock from energy stored in capacitors.

Do not remove cover until 5 minutes after disconnecting all sources of supply expect service technician. Warranty may be voided if any

unauthorized removal of cover.

2 3 Notice For Use

The Export Power Manager has been constructed according to the applicable safety and technical guidelines.

2. Safety Instructions

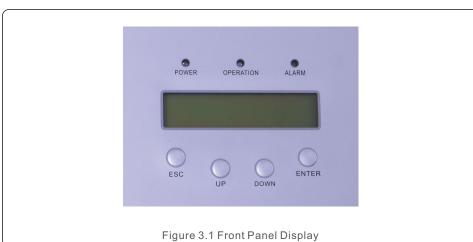
Use the Export Device in installations that meet the following specification ONLY:

- 1. Permanent installation is required
- 2. The electrical installation must all the applicable regulations and standards.
- 3. The Export Power Manager must be installed according to the instructions stated in this manual.
- 4. The Export Power Manager must be installed according to correct technical specification.
- To install the Export Device you should notice the phase of sampling voltage and the direction of sampling current, then you can connect sampling wires and CT (current transformer).

.4.

4. Installation

3.1 Front Panel Display



3.2 LED Status Indicator Lights

	Light	Status	Description
O BOWER	ON	Export Device power on	
0	(1) POWER	OFF	Export Device power off
	• ODEDATION	ON	Communication with inverter
② OPERATION	(2)	OFF	No communication with inverter
3 ALARM	ALA DA	ON	Inverter, EPM or Communication Faul
	- ALARM	OFF	No alarm

Table 3.1 Status Indicator Lights

3.3 Keypad

There are four keys in the front panel of the Inverter(from left to right): ESC, UP, DOWN and ENTER keys. The keypad is used for:

- Scrolling through the displayed options (the UP and DOWN keys);
- Access to modify the adjustable settings (the ESC and ENTER keys).

3.4 LCD

The two-line Liquid Crystal Display (LCD) is located on the front panel of the EPM, which shows the following information:

- Export Power Manager operation status and data;
- Service messages for operator;

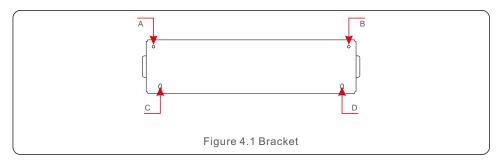
4.1 Select a Location for the EPM

To select a location for the EPM, the following criteria should be considered:

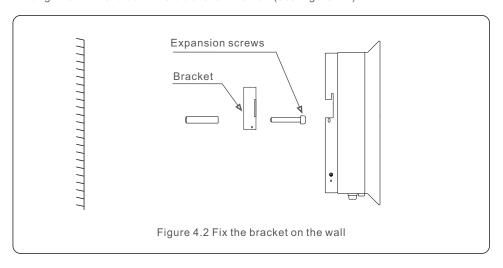
- The temperature of the EPM could up to 75°C.
- The EPM is designed to work in extreme temperature range is from -25°C to 60°C.
- The EPM should be kept minimum 300mm clearance from the other device.
- The EPM cannot be placed in direct sunlight.

4.2 Mounting the EPM

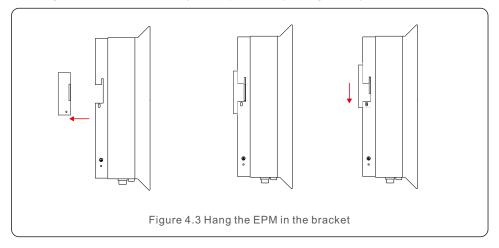
Please attach back plate onto wall horizontally where to install the product. Then mark A, B, C and D for drilling points.(see Figure 4.1)



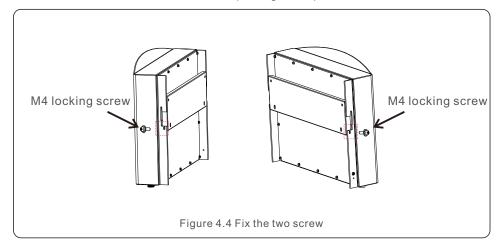
Drill four $\phi 8$ holes and insert expandable shell into the holes which make the bracket alignment. After that fix the bracket on the wall.(see Figure 4.2)



Hang the EPM in the bracket by the steps below .(see Figure 4.3)



Fix the two screw at the side of bracket. (see Figure 4.4)



4.3 Electrical Connections

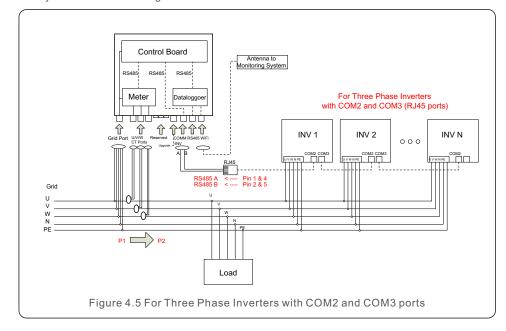
The Export Power Manager is designed for electrical connection without removing the cover.

The meaning of the symbols located at bottom of the EPM is listed in Table 4.1.

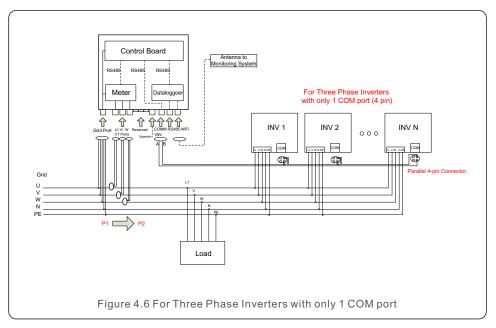
Grid_U.V.W.N	AC voltage sampling terminal, EPM power supply terminal
CT1	AC current sampling terminal(U)
CT2	AC current sampling terminal(V)
CT3	AC current sampling terminal(W)
Comm_INV	Connect to solis inverters
Upgrade	COM for upgrade
RS485	Connect to monitoring platform through RJ45
WIFI	WiFi antenna to monitoring platform (Wireless)

Table 4.1 The meaning of the symbols located at bottom of the EPM

System connection diagram is as follows:

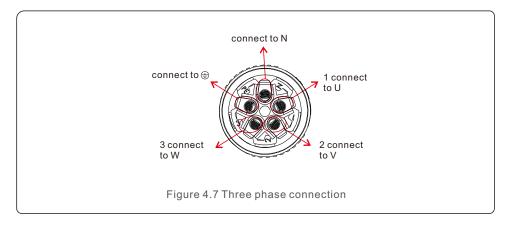


4. Installation 4. Installation

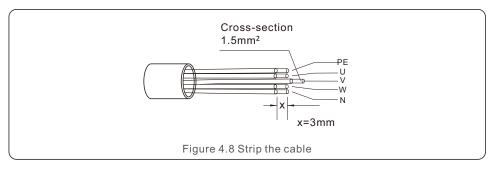


1 Make the grid input cable

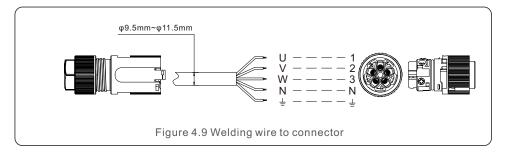
- a. Measure the distance from EPM to power distribution box. And find proper cable for grid input. 5 core cable for Solis-EPM3-5G-PLUS.
- b. For three phase inverter installation connect U, V, W to pin1, 2,3 and connect N to pin4, connect PE to ⊕ (see figure 4.7).



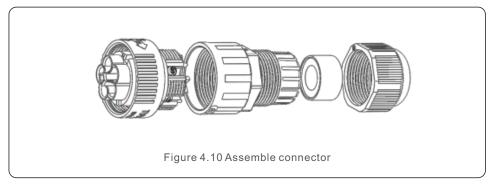
c. Strip the end of cable to 3mm (see Figure 4.8)



d. Through the cable to the washer and use a suitable screw driver to fix the wire to the connector (see Figure 4.9).



e. Assemble the connector (see Figure 4.10)



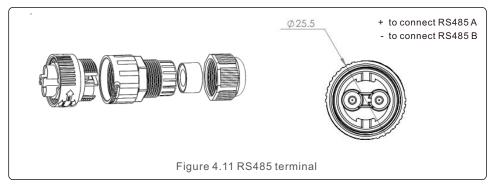
.10.

4. Installation

4. Installation

2. Make RS485 cable (COMM-INV port)

a. Refer to figure 4.11, the RS485 terminals for inverter and EPM are already assembled. Tips:RS485 cable: preferred 0.5mm.



b. Refer to figure 4.12, connect communication cable between inverter and EPM, the RS485 line length between the inverter 1 and EPM should less than 1000 meters.

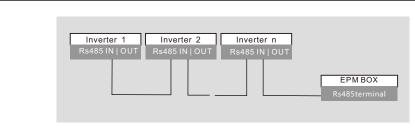


Figure 4.12 RS485 cable connection

c. Follow step1 to assemble 2 connectors to each end of cable.

3. Connect and fix the CT

To detect the backflow power, the CTs need to be installed at the PCC (Point of Common Coupling), instead of the load branch circuit.

No Fo

Note:

For three phase system, CT1,CT2 and CT3 must be installed on U,V and W with correct sequence, otherwise EPM can not detect the correct data.

"The CT cable outer diameter is 6.5mm-7.5mm, cross-sectional area 1.5mm2".

- a. Switch off the main switch, disconnect the line cables.
- b. Insert the cables through the CT, make sure the P1 on CT is towards grid and P2 is towards the inverter.
- c. Reconnect the line cables.



Note:

If the CT is installed in the wrong direction, the EPM can't work normally.



Note:

The standard package of EPM DOESN'T include the CT current sensor. Please select CT with secondary current of 5A.

Specification	Dimensions(mm) W x H x D	Hole size(mm) a x e	CT Ratio	AKH-0.66K
CT-30×20-100A	90 x 114 x 40	22 x 32	100:5A	
CT-60×40-300A	114 x 140 x 36	42 x 62	300:5A	[21]
CT-80×40-600A	122 x 162 x 40	42 x 82	600:5A	
CT-80×40-1000A	122 x 162 x 40	42 x 82	1000:5A	a de →
CT-160×80-2000A	184 x 254 x 52	82 x 162	2000:5A	45
CT-160×80-3000A	184 x 254 x 52	82 x 162	3000:5A	(121)

Table 4.2 CT Ratio



Note:

Solis recommends customers to purchase suitable current transformers from local suppliers according to the max possible current in different projects.

As long as the secondary current is 5A, it will not affect the warranty of the EPM devices and inverters.

Solis can also provide above current transformers as an optional accessory. Customers can contact Solis sales rep to place the order based on their project requirements.

.12.

4. Installation

4. Muti inverter connection

Please follow figure 4.5 or 4.6 system diagram to connect muti-inverters. EPM can control maximum 20 inverters. One grid connection point ONLY.

The inverter address must be set to different value. Please set address from 01 to 20. Before start up inverter please follow 6.7 to set inverter number in EPM.

5. Monitoring

Two methods of monitoring are available with the EPM device connected.

1. Through WiFi antenna on the EPM device.

This is similar with the Solis WiFi datalogger. The WiFi antenna can broadcast data to the local router and then to the Solis monitoring platform. No wiring is needed.

2. Through RJ45 cable

This port is used for connection directly to the router.



Note:

When connect the inverters to the EPM, do not use the other ports on inverters to realize the monitoring function.

5. Commission and decommission

5.1 Commissioning

- 1. Switch off all the AC breakers and DC breakers in the system.
- 2. Complete AC and DC wirings for inverters by following inverter manuals.
- 3. Connect AC cables to the Grid terminal on the EPM.
- 4. Install the CTs to the grid connection side with correct direction as mentioned in EPM manual
- 5. Connect RS485 communication cables between inverters and EPM Comm-INV port.
- 6. Switch on the DC breakers for Inverters and set the inverters to "OFF" in LCD and Set "External EPM Set"- "5G EPM" -"Failsafe: ON". Then assign slave addresses accordingly in inverters.
- 7. Switch on all the AC breakers for inverters and EPM
- 8. Set EPM settings including "Inverter Qty Set", "Backflow Power", "Set CT Ratio" and "Set Capacity" based on the actual system configuration.
- 9. Turn on some loads and check the power flow data on EPM. Negative power indicates taking power from grid and CT direction is correct. Positive power indicates export power to grid and the CT direction is reversed (Change the CT direction accordingly).
- 10. If the CT direction is confirmed correct and EPM is not reporting any alarms, set all inverters to ON in inverter LCD.
- 11. Commissioning Completed.

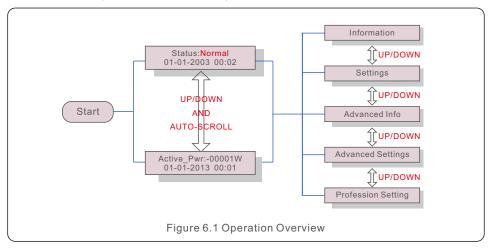
5.2 Decommissioning

In order to aovid the backflow power to grid, please stop the inverter before stop the EPM.

- 1. Turn off the inverter output AC breaker.
- 2. Turn off inverter input DC breaker.
- 3. Turn off the grid input breaker of EPM.
- 4. Disconnect all cable of EPM, disassemble EPM after 5mins.

.14.

During normal operation, the display alternately shows the power of grid side and the operation status .Screens can also be scrolled manually by pressing the UP and DOWN keys. Press the ENTER key to access to the Main Menu.



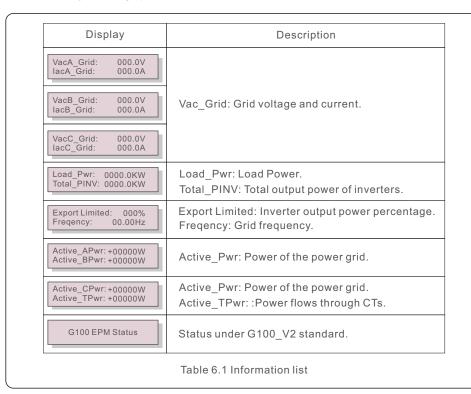
6.1 Main Menu

There are four submenus in the Main Menu (see Figure 6.1):

- 1. Information
- 2. Settings
- 3. Advanced Info.
- 4. Advanced Settings
- 5. Profession Setting

6.2 Information

Solis Export Power Manager main menu provides access to operational data and information. The information is displayed by selecting "Information" from the menu and then by scrolling up or down.



6.2.1 Lock screen

Pressing the ESC key returns to the Main Menu. Pressing the ENTER key locks (Figure 6.2(a)) or unlocks (Figure 6.2 (b)) the screen.



.16.

6. Operation

6.3 Settings

The following submenus are displayed when the Settings menu is selected:

- 1.Set Time
- 2.Set Address

6.3.1 Set Time

This function allows time and date setting. When this function is selected, the LCD will display a screen as shown in Figure 6.3.

NEXT=<ENT> OK=<ESC> 01-01-2016 16:37

Figure 6.3 Set Time

Press the UP/DOWN keys to set time and data. Press the ENTER key to move from one digit to the next (from left to right). Press the ESC key to save the settings and return to the previous menu.

6.3.2 Set Address

This function is used to set the EPM address.

The default address number is "01".

YES=<ENT> NO=<ESC> Set Address: 01

Figure 6.4 Set Address

6.4 Advanced Info - Technicians Only



NOTE:

This area is for fully qualified and accredited technicians only. Enter menu "Advanced Info.", "Advanced settings" and "Profession Setting" will need password).

Select "Advanced Info." from the Main Menu.

The screen will require the password as below:

YES=<ENT> NO=<ESC> Password:0010

Figure 6.5 Enter password

After enter the correct password the Main Menu will display a screen and be able to access to the following information.

- 1. Inverter Power
- 2. Version
- 3. Model EPM
- 4. Communication Data
- 5. Energy Info
- 6. Alarm Message

6.4.1 Inverter Power

The screen shows the information of Inverter Power for each inverter which connected to the EPM.

->Inverter1: 00000W Inverter2: 00000W

Figure 6.6 Inverter Power

6.4.2 Version

The screen shows the the firmware version of the EPM.

Software Ver.: 38

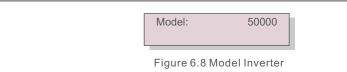
Figure 6.7 Version

.18.

6. Operation

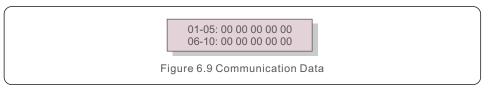
6 4 3 Model FPM

The screen shows the EPM Model.



6.4.4 Communication Data

The screen shows the internal communication data of the Inverter, for service technicians only.



6.4.5 Energy Info

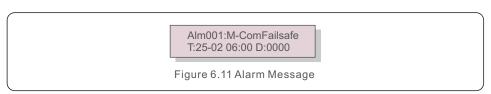
This shows the energy records on the EPM.

1.Load Total E. 2.INV Send Total E. 3.Send Grid Total E. 4.Get Grid Total E.



6.4.6 Alarm Message

The screen will show the current alarm of EPM.



6.5 Advanced Settings - Technicians Only



NOTE

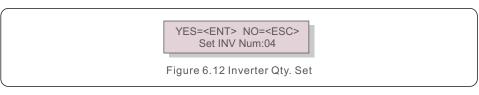
This area is for fully qualified and accredited technicians only. Please follow 6.4 to enter password to access this menu.

Select Advanced Settings from the Main Menu to access the following options:

- 1. Inverter Quantity
- 2. Total Capacity
- 3. Export Power
- 4. Meter Settings
- 5. Select Standard
- 6. Export Work Mode
- 7. Control Limit
- 8. Restore Settings
- 9. Set Passcode

6.5.1 Inverter Quantity

Set the total number of the inverters connected with EPM.



Enter the setting, LCD screen will show all the number of inverters which connected to the EPM. The number(01~20) can be select by pressing the UP/ DOWN keys.

6.5.2 Total Capacity

Set the total capacities of the inverters connected with EPM.



6. Operation

6.5.3 Export Power

Set the allowed power that inverter can generate to the grid.

YES=<ENT> NO=<ESC> Set Power: +000000W

Figure 6.14 Set Export Power

6.5.4 Meter Settings

- 1. Meter Selection
- 2. Set Meter CT
- 3. Set Meter PT
- 4. CT Direction

6.5.4.1 Meter Selection

Select related meter type according to the Gird type.

There are 3 meter types: Single Phase, Three Phase, Split Phase.

->Single Phase Three Phase

Figure 6.15 Meter Selection

6.5.4.2 Set Meter CT

Set the CT(Current Transformer) ratio according to the actual CT used at site.

YES=<ENT> NO=<ESC> Set Para: 0030:1

Figure 6.16 Set Meter CT

6.5.4.3 Set Meter PT

Set the PT(Voltage Transformer) ratio according to the actual PT used at site.

This setting is useful when EPM is used in a system voltage larger than 480V, e.g. 10kV or 22kV especially.

YES=<ENT> NO=<ESC> Set PT Para: 0001:1

Figure 6.17 Set Meter PT

6.5.4.4 CT Direction

Set the CT direction forward or reversed. This setting is useful when CT installation is finished and which direction is wrong, customer do not need to re-install, just use this setting to change direction.

YES=<ENT> NO=<ESC> Select: Forward

Figure 6.18 CT Direction

6.5.5 Select Standard

G100_V1: UK power control.

G100_V2: UK current control.

(1)G100 ON/OFF: G100_V2 standard on/off switch.

(2)Backflow Current: Set the allowed current that inverter can generate to the grid.

(3)Clear Fault: Manually reset function for G100_OVI_PRO alarm required by G100

(4)Reset Setting: Set the customer type as Resi(Residential) or NonResi(Non-Residential).

RD244: Spain power control.

Others: Power control for other scenarios.

YES=<ENT> NO=<ESC> Standard: G100_V1

Figure 6.19 Select Standard

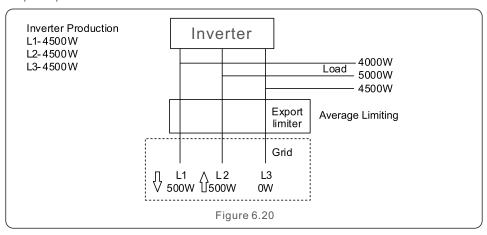
6. Operation

6.5.6 Export Work Mode

Set the export power calculation mode.

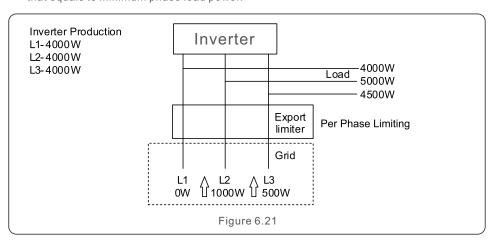
Mode 1: Average Mode.

As shown in the figure 6.20, at this mode, each phase of inverter will generate the power that equals to the average of the three-phase load power, and which is more than the minimum load phase power.



Mode 2: Min. Phase Mode.

As shown in the figure 6.21, at this mode, each phase of inverter will generate the power that equals to minimum phase load power.



YES=<ENT> NO=<ESC> Mode: Averge mode

Figure 6.23 Export Work Mode

6.5.7 Control Limit

Set the maximum control percentage $(50\% \sim 110\%)$ sent by EPM to inverters. Setting range is $50\sim 110\%$. Default is 110%.

YES=<ENT> NO=<ESC> MaxOutPLmt: 110%

Figure 6.24 Control Limit

6.5.8 Restore Settings

When Restore Settings is selected, the LCD will display as shown in Figure 6.25.

Are you sure?
YES=<ENT> NO=<ESC>

Figure 6.25 Restore Settings

Press the ENTER key to execute the setting.

Press the ESC key to return to the previous menu.

6.5.9 Set Passcode

If set a new password, please keep it well and avoid forgetting.

YES=<ENT> NO=<ESC>
Password: 0000

Figure 6.26 Set Password

Firstly, input the origin password and press Enter button;

Second, input the new password, press Enter button to save it. UP/DOWN button can be used to move the cursor.

Third, Press ESC button to get to the previous page.

6. Operation

6.6 Profession Setting - Technicians Only



NOTE

This area is for fully qualified and accredited technicians only. Please follow 6.4 to enter password to access this menu.

Select Profession Setting from the Main Menu to access the following options:

- 1. FailSafe
- 2. Export Compensate
- 3. Transmit
- 4. System Update
- 5. Clear Energy
- 6. CT check choose
- 7. Vol check choose
- 8. Time of Use

6.6.1 FailSafe Setting

When the Fail Safe is set "Run":

If EPM lost communication with internal meter, EPM LCD screen will display "MeterCom Fail". And EPM will control inverters output power to 0 kW.

When the Fail Safe is set "Stop":

Communication lost between EPM and internal meter will not affect the output of inverters.

YES=<ENT> NO=<ESC> FailSafe: RUN

Figure 6.27 FailSafe Setting

6.6.2 Export Compensate

This setting is used to compensate the export power value which is set at 6.5.3.

YES=<ENT> NO=<ESC> Output Power: 000.5%

Figure 6.28 Export Compensate

6.6.3 Transmit Switch

Transmit switch is only useful when upgrading inverters.

Turn on the transmit switch to upgrade the inverters.

Turn off the transmit switch after upgrading, otherwise EPM control will be failed.

YES=<ENT> NO=<ESC> Switch: OFF

Figure 6.29 Transmit ON/OFF

6.6.4 System Update

This function is used when upgrading EPM firmware by an external upgrading stick.

YES=<ENT> NO=<ESC>
Current Ver.: DE

Figure 6.30 System Update

6.6.5 Clear Energy

This function is used to clear energy information in the EPM.

6.6.6 CT Check and Vol Check

CT check: Check if 3 phase current signal is normal, a CT-FailSafe alarm will occur when losing CT signal. Default is ON, every single phase check is optional.

Vol check: Check if 3 phase voltage signal is normal, a M-VFailSafe alarm will occur when losing Voltage signal. Default is ON, every single phase check is optional.

6.6.7 Time of Use

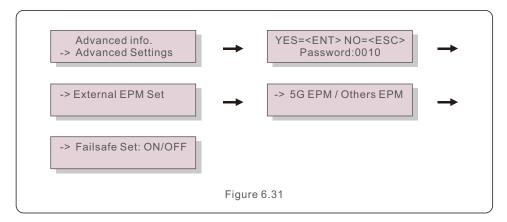
Set different export power at different time zones. The function is off at default. Each time zone is defined with a beginning time and ending time, and there are 5 time zones in total. Each time zone has an independent ON/OFF switch.

7. Trouble Shooting

6.7 Inverter Set

6.7.1 Set Inverter EPM

EPM has two versions: EPM-2G, EPM-5G. While inverter is working with EPM, please ensure to change the inverters settings as below:





NOTE:

If you are using EPM-5G, please choose "5G EPM", and set it "Failsafe Set: ON". If you are using EPM-2G, please choose "Others EPM", and set it "Failsafe Set: ON". Only one setting needs to be set.

6.7.2 Set Address

Select the address of the inverter, the default is "01", the range is "01-20", please set a continuous value.

YES=<ENT> NO=<ESC>
Set Address: 01

Figure 6.31 Set Address

The EPM is designed in accordance with the most important international safety and EMC requirements. Before delivering to the customer, the EPM has been subjected to several tests to ensure its optimal operation and reliability.

When the EPM is running, the LCD screen will display running status. The status messages and descriptions are listed in Table 7.1.

Message Name	Information Description	Troubleshooting Suggestion
Normal	The EPM works normally	1
RS485Fail	EPM has lost communication with one or some of the inverters	Check the inverter status, the inverter which lost communication with EPM will give a "Failsafe" alarm. Check the communication line between the inverter and EPM.
MeterCom Fail	EPM has lost communication with external meter	Check the communication line between EPM and meter.
CT-Failsafe	Current Sensor failed	Check the lines between EPM and CT. Check if the CT installation is normal.
M-VFailSafe	Meter Phase Voltage Lack	1. Check the lines between EPM and voltage sampling ponit. 2. Check the lines between PT and EPM. 3. Check if the PT installation is normal.
G100_OVI_PRO	G100_V2 over current	The alarm appears when the actual current exceeds G100_V2 backflow current under scenarios stipulated by G100 standard. As required by G100, G100_OVI_PRO alarm should be manually reset. Please select the "Advanced Settings -> Select Standard -> G100_V2->clear fault" to reset.

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Model	Solis-EPM3-5G-PLUS		
AC Input			
Rated voltage	3/(N)/PE, 230V/400V 3/PE, 480V		
Input voltage range	175V~494V (L to L)		
Input frequency range	45~65Hz		
Communication			
Inverter communication	Modbus		
Communication interface	RS485(Wired)		
Maximum communication inverter numbers	20pcs		
Monitoring	Wi-Fi/LAN (Internal)		
General data			
Installation environment	Indoor		
Ambient temperature	-25°C~+60°C		
Relative Humidity	5%~95%		
Max. operation altitude	2000m		
Ingress protection	IP65		
Pollution degree	PD 2(Inside), PD3(Outside)		
Overvoltage category	III		
Self power consumption	<15W		
Dimensions(W*H*D)	488mm*446mm*149mm		
Weight	5.4kg		
AC connection	Quick connection terminal		
Display	LCD, 2*20Z		
Smart meter	Three phase: DTSD1352-C		
CT conection	Plug terminal		
CT specification	Three phase: Optional(Secondary current is 5A)		
Power control accuracy	1%Pn		
Features			
Failsafe function	Yes		
Remote upgrated	Yes		
Control time	5s		
Warranty	2 years		

Connection via Ethernet

- 1. Connect router and data logger via Ethernet port with network cable.
- 2. Reset the data logger.

Reset: Press the reset button with a needle or open paper clip and hold for a while when the 4 LEDs should be on. Reset is successful when 3 LEDs, except POWER, turn off.

3. Enter the configuration interface of your router, and check the IP address of the data logger assigned by the router. Open a web browser and enter the assigned IP address to get access to the configuration interface of the data logger.

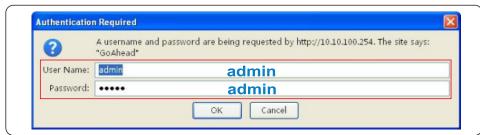
Fill in username and password, both of which are admin as default.



NOTE:

Supported browsers: Internet Explorer 8+, Google Chrome 15+, Firefox 10+.





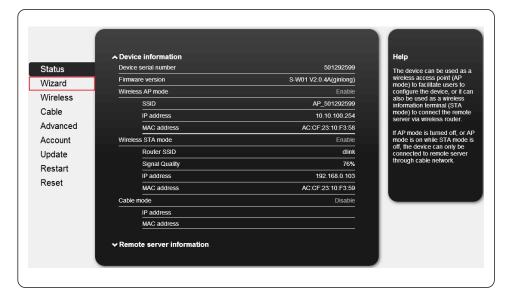
.31.

4. Set parameters of data logger.

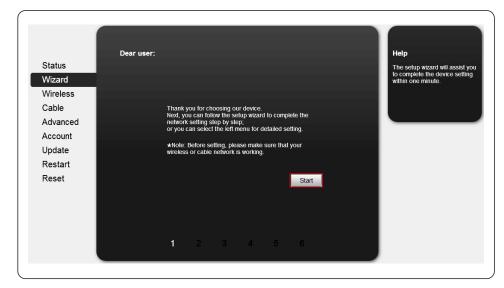
In the configuration interface of data logger, you can view general information of the device.

Follow the setup wizard to start quick setting.

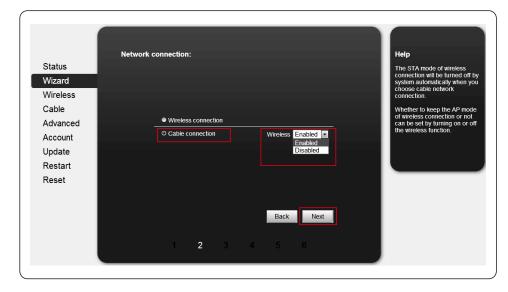
Step1: Click "Wizard" to start.



Step2: Click "Start" to continue.



Step3: Select "Cable Connection", and you can choose to enable or disable the wireless function, then Click "Next".

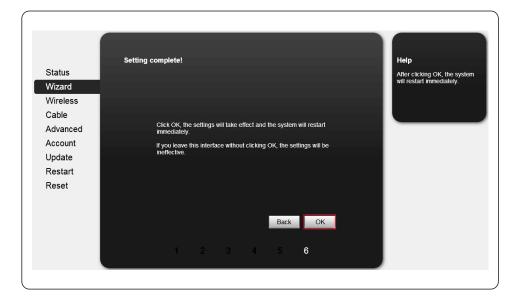


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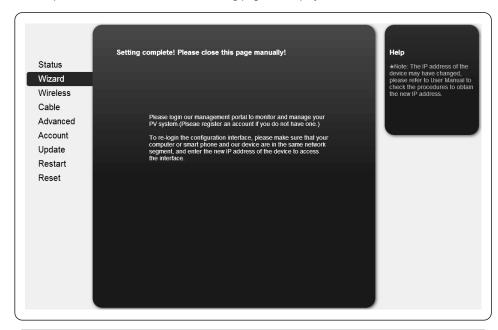
Step4: Select "Enable" to obtain an IP address automatically, then click "Next".



Step5: If setting is successful, the following page will display. Click "OK" to restart.



Step6: If restart is successful, the following page will display.





NOTE:

After setting is completed, if STATUS is permanently on after about 30 seconds, and the 4 LEDs are all on after 2-5minutes, the connection is successful. If STATUS is flashing, which means unsuccessful connection, please repeat the setting from step 3.

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