



# S-Miles Cloud Monitoring Platform Operation Guide (App)

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# **Frequently Asked Questions**

Q: How do I change the plant information? A: Please refer to 3.1.5.1. Q: How do I change the owner information? A: Please refer to 3.1.5.2. Q: How do I change the plant settings? A: Please refer to 3.1.5.4. Q: How do I find the plant details? A: Please refer to 3.1.6.3. Q: How do I view the device list and issue commands? A: Please refer to 3.1.6.4. Q: How do I turn off the inverter remotely? A: Please refer to 3.1.6.4. Q: How do I restart a device? A: Please refer to 3.1.6.4. Q: How do I replace a device? A: Please refer to 3.1.6.4. Q: How do I view the plant revenue? A: Please refer to 3.1.6.5. Q: How do I set the system mode? A: Please refer to 3.1.6.6. Q: How do I edit dry contact configuration?

A: Please refer to <u>3.1.6.7</u>.

Q: How do I select the battery protocol?

A: Please refer to <u>3.2.3.1</u>.

Q: How do I perform self-check, grid profile configuration, meter location, generator setting, network

configuration, and networking?

A: Please refer to <u>3.2.3.2</u>.

Q: How do I set AC-coupled system?

A: Please refer to 3.2.3.2.

Q: How do I change the login password?

A: Please refer to 3.3.2.

Q: How do I change the language?

A: Please refer to 3.3.3.

Q: How do I check the app version?

A: Please refer to <u>3.3.4</u>.

Q: How do I edit advanced configuration?

A: Please refer to <u>4.1</u>.

Q: How do I set export limit parameters?

A: Please refer to <u>4.2.2</u>.

### Note:

Since the App version will be updated periodically, the pages displayed in your App will slightly differ from screenshots (Version 1.1.11) showed in this operation guide, which will not affect your operation.

### 1. Introduction

The S-Miles Cloud (Hoymiles Monitoring Platform) is a smart energy storage operation monitoring and management system developed by Hoymiles specifically for distributors, installers, and end users of distributed PV power plants.

At present, the system has Installer version and End-user version, with the corresponding webpage and mobile application available.

This platform provides an easy-to-use procedure for accounts under monitoring. It enables installers to configure the monitored accounts quickly and provides them with power generation data of both plant and device, as well as detailed alarm information about the power plant regarding commissioning and diagnostics. This manual is intended to guide users in operating and managing S-Miles Cloud.

Install the DTU, inverter, smart meter and battery before using the monitoring system. DTU is a communication gateway which is used to collect status and operation data from inverter and transmit control commands to it. At the same time, the DTU also connects to the Internet through a router and sends inverter data to the Hoymiles Monitoring Server to achieve remote control of the whole system.

# 2. App Download and Login

### 2.1 App Download

S-Miles Installer is a mobile application developed by Hoymiles especially for installers of distributed plants. It is committed to better performing installation and maintenance.

S-Miles End-user is a mobile application developed by Hoymiles especially for owners of distributed plants. It can absorb the operating data of plants from S-Miles Cloud.

a. Scan the QR code to download.



S-Miles Installer



S-Miles End-user

b. Search "Hoymiles" in the Google Play or App Store.



S-Miles Installer



S-Miles End-user

### Note:

The S-Miles App is available for iOS (version 13 and above) and Android (version 6 and above).

### 2.2 Login

Enter your account and password, and then tap "Login" to log in to the App. If you forget the password, tap the "Forgot Password" to reset password.



### Note:

For the first login, please approach your distributor or installer to create an account for you.





# 3. Interface

### 3.1 Plants

The left icon at the bottom left corner represents the plant page, and you can add, filter, edit and view your plants here.

### 3.1.1 Add a Plant

Tap the "
"" icon at the upper left corner of this page to add a new plant. Enter the plant information and tap "Next".



### 3.1.2 Search a Plant

Tap the " $\mathbb{Q}$ " icon at the upper right corner of this page, and enter the key words of the plant name or the complete plant name to serch the plant.

+	Plants	Q
☆ Plan	t Status _ Plant Type _	
Plant Quanti	ity - 36	7
\$		C Cough
	<b>10</b> kW	Ø
0		
☆	2023-04-18 (UTC+08)	
	<b>10</b> kW	Ø
0		
	********	
	<b>10</b> kW	
0		
☆	2023-04-07 (UTC+08)	
	10 kW	Ø
0		
₿≣		00

### 3.1.3 Filter the Plant

Tap "Plant Status" to filter plants according to different status such as Normal, Offline, Alarm and so on. Tap "Plant Type" to filter plants according to different types such as PV Microinverter, RSD/OPT + PV String, and PV String + Battery.



### 3.1.4 Add a Plant to Favorites

Tap the " $\bigwedge$ " icon at the upper left corner of the plant that you want to add to your favorites, and then you can tap the " $\bigwedge$ " icon on the left of "Plant Status" to check your favorites.



### 3.1.5 Edit the Plant

Choose the plant that you want to change and tap the " " icon to edit the plant information, owner information, devices and settings.



	Edit Plant	
P P	lant Information	>
en c	Owner Information	>
🗒 C	Devices	>
⊙s	settings	>

### 3.1.5.1 Plant Information

Tap "Plant Information", edit information, and then tap "Save" to complete the changes.

<	Edit Plant	
P F	lant Information	>
8.0	Owner Information	< لر
	Devices	>
() s	ettings	>

< Plant Information	
Plant Name	-
Plant Type      Residential Plant	
Capacity(kW)	10
• Time Zone (UTC+08:00) Beijing,Chongqing,Hong Kong,Uru	>
* Address	
* Region	>
Supports JPG, PNG or JPEG formats, 5MB or less	
Save C	

### 3.1.5.2 Owner Information

Tap "Owner Information" to add a new owner, or choose an existing owner and delete the login account, and then tap "Save" to complete the changes.

<	Edit P	lant	
🗜 Plan	t Information		>
있 Owr	ner Information	Ω	>
🗒 Dev	ices	لرباك	>
<li>Sett</li>	ings	$\sum$	>

<	Owner Info	ormation	
Q s	elect Owner		°¢+
HM Login A	ccount: ACCouple		匝
	Sav	• 🤇	
			$\checkmark$

### 3.1.5.3 Devices

Tap "Devices" to check DTU SN and Inverter SN.

<	Edit Plant		
Plant Inf	ormation	>	
O Owner Ir	nformation	>	
Devices	Ω	>	
Settings	لرم	>	

<	Bind Devices	
DTU-SN		430122480751
Inverter		214322470504



### 3.1.5.4 Settings

Tap "Settings" to set the currency type and electricity price per unit (sell and buy), and then tap "Save" to complete the settings.

/	Edit Dlant	
Plant Inform	ation	>
Owner Inform	mation	>
Devices		>
<ul> <li>Settings</li> </ul>	$\cap$	>
	2	



### 3.1.6 View the Plant

### 3.1.6.1 Overview

Tap the plant that you want to view to enter the overview page. You can tap the PV/Grid/Load/Battery icons to check the real-time data here.



### 3.1.6.2 Historical Records

Tap the plant that you want to view and tap the middle icon at the bottom to enter the historical records page. You can check the production and consumption data here according to day, month, year and total.



### 3.1.6.3 Plant Details

Tap the plant that you want to view, tap the rhombus icon at the bottom right corner, and then tap "Plant Details" to view plant details.

Ð	Plants	Q
☆ Plan	t Status 🖌 Plant Type 🖌	
Plant Quanti	ity - 36	
	© 2023-04-23 (UTC+08) 10 kW	
★ ●	2023-04-18 (UTC+08) 10 kw	Ø
<b>⊘</b>	 10 kw	
<ul> <li>★</li> <li>●</li> </ul>	2023-04-07 (UTC+08) <b>10</b> kW	Ø
83		0

<	Cough
Plant Details	∩_
E Device List	$\begin{pmatrix} & & \\ & & \end{pmatrix} \rightarrow \end{pmatrix}$
Plant Revenue	>>
Battery Smart Control Self-Consumption Mode	>
Dry Contact Configuration	>
Advanced Config	>
@ <u>111</u>	*

	Plant Details
Plant ID	1243250
Plant Name	RAIN (R) RH (mph
Capacity	10 kW
Battery Capac	ty 0 kWh
Region	10.010.010
Address	
Name	нм
Login Account	ACCouple
Organization	
Org. Informatio	n
Time Zone	(UTC+08:00) Beijing,Chongqing,Hong Kong,Urumqi
Installation Tin	ne 2023-04-18 17:17:38

### 3.1.6.4 Device List

Tap the plant that you want to view, tap the rhombus icon at the bottom right corner, and then tap "Device List" to view DTU/Inverter/Battery details and issue commands.

<b>(</b> +	Plants	Q
☆ Pla	Plant Type	
Plant Quant	lity - 36	
.⊗	© 2023-04-23 (UTC+08) 10 kw	
\$ ©	2023-04-18 (UTC+08) 10 kw	Ø
0	 10 kw	
	2023-04-07 (UTC+08) 10 kw	Ø
83		0

<		•••		-
🏥 Pl	ant Details			>
i≣ De	evice List			>
(\$) PI	ant Revenue		Q	) >
E Ba	attery Smart Contr If-Consumption Mode	ol		>
() Di	ry Contact Configu	ration		>
(2) Ad	dvanced Config			>
(	0	000		*
	0	_		•



Plant	ERIO ( CORNEL IN STREET
Hardware Ver.	H11.01.01
Software Ver.	V00.00.03
Device Replacement R	lecord 0
Creation Time 2	2023-04-18 17:18:51(UTC+08)
Alarm Status	(?
Restart	Replace
Restore Default Settin	ngs Stop Processing Command
	DTU

Plant	EXISTING THE PARTY NAME
Hardware Ver.	
Software Ver. (Power)	V01.04.27
Software Ver. (System)	V00.02.22
Software Ver. (Safety)	V01.02.18
Device Replacement Reco	ord 0
Creation Time 2023	-03-01 10:36:02(UTC+08)
Turn On	Turn Off
Restart	Restore Default Settings
Clear History	Select Battery Type
Upload Real-time Data	
Inv	rter



### 3.1.6.5 Plant Revenue

Tap the plant that you want to view, tap the rhombus icon at the bottom right corner, and then tap "Plant Revenue" to view plant revenue and cost.

+	Plants	Q	<		-
N Plant Status	Plant Type 🖌		🖺 Plant Details		>
Plant Quantity - 36			≣ Device List		>
©	-23 (UTC+08)	@ ((	③ Plant Revenue	, U	رر <
2023-04	-18 (UTC+08)		Battery Smart Self-Consumption	Control	
● 10 kw		Ø	<ul> <li>Advanced Cor</li> </ul>	nfig	>
⊚					
2023-04 ≥ ⊗	-07 (UTC+08)	Ø			
83		0	Ø	<u>0o0</u>	*

### 3.1.6.6 Battery Smart Control

Tap the plant that you want to view, tap the rhombus icon at the bottom right corner, and then tap "Battery Smart Control" to set the system mode.

+	Plants	Q
☆ Pla	Plant Type	
Plant Quant	lity - 36	
	© 2023-04-23 (UTC+08) 10 kW	
<b>☆</b>	2023-04-18 (UTC+08) 10 kw	Ø
<b>⊘</b>	 10 kw	
	2023-04-07 (UTC+08) 10 kW	Ø
83		0

<		Caught	
Plant Details	3		>
≣ Device List			>
③ Plant Reven	ue		>
Battery Sma Self-Consump	rt Control tion Mode	N_	>
Dry Contact	Configuration	( )	>
Advanced C	onfig		>
6	000	*	



### ★ Self-consumption Mode

In the daytime, solar energy supports the loads firstly, and surplus energy is stored in the battery. When the battery is fully charged or reaches the maximum charge power, the surplus energy is fed into grid (or limited if required). At night, the battery discharges for the loads firstly, and the grid will supply the loads once the battery power is not enough. In this mode, battery cannot be charged from grid at night. The self-consumption mode can reduce the use of grid power. Solar energy is preferentially supplied to the load, charged to the battery, and fed into the grid last. You can set the reserve capacity within a certain range (a small amount of power can be reserved due to infrequent power outages), and then tap "Save".

### ★ Economical Mode

In this mode, battery charging and discharging periods need to be defined. Meanwhile, the battery can be forced to charge from the grid during the preset charging time. For instance, the battery could be charged or discharged according to valley or peak electricity prices. You can set reserve capacity within a certain range (a small amount of power can be reserved due to infrequent power outages), select the type of currency you need, and set different time periods to be more flexible to save costs of electricity. Tap "Edit" to set the time period for peak, low and partial peak grid prices in different seasons or dates, but you can just add up to four time periods, and then tap "Save".

### ★ Full Backup Mode

Full backup mode can be selected when the grid frequently breaks down. The battery will be forced to charge to a set capacity so that it has enough power to support the electricity consumption in daily life when the inverter is in off-grid mode. You can also set the reserve capacity within the certain range and tap "Save".

### ★ Pure Off-grid Mode

When the system is not connected to the grid, you can choose the pure off-grid mode and tap "Save".

### ★ Force Charge Mode

The force charge mode can be used during the commissioning of inverter or when the battery capacity falls below the value of safety SOC. You can set the reserve capacity within the certain range. If the battery capacity is lower than the setting, the battery will be forcibly charged. And you can set the charging power of battery if needed. Finally, save the values you have changed.

### ★ Force Discharge Mode

The force discharge mode can be used during the commissioning of inverter or when the battery capacity rises above the value of safety SOC. You can set the reserve capacity within the certain range. If the battery capacity is higher than the setting, the battery will be forcibly discharged. And you can set the discharge power of battery if needed. Finally, save the values you have changed.

### 3.1.6.7 Dry Contact Configuration

Tap the plant that you want to view, tap the rhombus icon at the bottom right corner, and then tap "Dry Contact Configuration" to edit dry contact configuration. Note that only one mode can be selected at a time.

+	Plants	Q
었 Plant S	itatus 🖌 Plant Type 🖌	
Plant Quantity	- 36	
\$		Cought
	2023-04-23 (UTC+08)	ھ لر
0		
	<u>ر</u>	
	2023-04-18 (UTC+08)	
	<b>10</b> kW	Ø
0		
	*********	
	10 kw	
0		
\$2	1000	
X X	2023-04-07 (UTC+08)	-
	10 kW	Ø
8		0

### ★ Earth Fault Alarm

This function is used for external alarm caused by grounding insulation resistance fault or residual current fault. Disable the external alarm when the load is connected. This function is to produce alarm, not to cause tripping.



### ★ Load Control

Load control can be used according to individual demand. This setting is to control whether the load is working or not. There are five modes available as follows.

(1) Switch Mode: Manually turn on or turn off the dry contact.

(2) Time Mode: Set the time period for the dry contact to work. The dry contact is closed during this set time and disconnected at other times.

(3) Intelligent Mode: Because the energy generated by PV fluctuates a lot, this mode is to make the dry contact avoid being turned on and off frequently. The dry contact will only be turned on when the residual energy generated by the PV exceeds the power set by the load within the set time period. You can set the minimum run time and the nominal power of the dry contact.

(4) Backup Load Smart Control: The unnecessary dry contact will be turned off in off-grid situation when the battery capacity is lower than the set SOC value. You can set the value of protection SOC if needed.(5) EV Charger Smart Control: EV Charger will be turned on when entrance breaker has enough margin.

	Dry Contact Configuration	<	Load Control	
*Only one mod	de can be selected	Select mod	le 🗇	Switch Mode
Earth Faul	It Alarm ③			
Load Cont	trol 💿			
Select	Ø			
Generator	r Control ③	)		
	5	)		
			Switch Mode	
			Switch Mode	
			Time Mode	
			Intelligent Mod	е
		В	ackup Load Smart	Control
			EV Charger Smart (	Control
	Save		Cancel	

### ★ Generator Control

Generator control is used when there is higher power on the load side or lower battery capacity in off-grid mode. You can set the value of protection SOC within the certain range if needed. When the battery capacity is below the set protection SOC, the generator will work.

< Dry Contact Con	figuration
*Only one mode can be selected	
Earth Fault Alarm ③	
Load Control ③	
Generator Control ③	
Protection SoC	30 %
Save	9
	$\langle \rangle$

### 3.1.6.8 Advanced Configuration

Tap the plant that you want to view, tap the rhombus icon at the bottom right corner, and then tap "Advanced Config" to edit ESS advanced configuration and ESS safety configuration. After entering the advanced configuration page, you can slide your finger up or down to check and set relevant parameters. For detailed settings, please refer to "<u>Chapter 4 Advaned Configuration</u>".

+ Plants	Q		-
Plant Status Plant Type		Plant Details	>
Plant Quantity - 36		E Device List	>
	longite		
■ 10 kw		(\$) Plant Revenue	>
·	<u>}</u>	Battery Smart Control Self-Consumption Mode	>
2023-04-18 (UTC+08)		Ory Contact Configuration	>
0 kw	Ø	Advanced Config	$ \rightarrow $
		C	
10 kw		l	
0			
2023-04-07 (UTC+08)			
0 kw	Ø		

### 3.2 O&M

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The Middle interface is the O&M (Operation and Maintenance) interface, including power generation to check basic information and tools to perform relevant settings.

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### 3.2.1 Alarm

Tap "Alarm" to check the historical and current alarms.



# 3.2.2 Network Configuration

### 3.2.2.1 Configure the Network of DTU

a. Choose the wireless network of DTU with serial number like "DTS-22010055" and enter the default password "ESS12345" to connect DTU.

Settings	WLAN	Edit
WLAN		
NETWORKS		
chuneng	103	🕯 🗢 🚺
chuneng	1	🕯 🗢 і
DTS-220	010043	ê 🗢 i
DTS-220	010053	ê 🗟 î
DTS-220	010055	● ≑ 🛈
DTSW-2	0143000 🤇	<b>≈</b> (i)
DTU-W1	00	€ ≎ ()
DTU-W1	00_Wi-Fi5	ê 🗢 i
DTUP-8	0100754	<ul> <li>€ (i)</li> </ul>
HM_GUE	EST	ê 🗢 i
HM_OFF	ICE	ê 🗢 i
HM_RD0	0	ê 🗢 i

Enter	the password for "DTS-2201	10055"
incel	Enter Password	Join
		(
Password		
your iPhone i connected to contacts.	access this WLAN network near any iPhone, iPad, or Ma this network and has you in	by bringing ic which has i their

b. Open the App and choose the "O&M  $\rightarrow$  Network Config". Enter the account and password of nearby stable wireless network, tap "Send to DTU", and wait until the "Connection Succeeded" appears to tap "Finish".



### Note:

The DTU only supports 2.4G Hz router, and the IP of router cannot begin with 10.10.

### 3.2.2.2 Change the Default Password of DTU

a. Choose the wireless network of DTU with serial number like "DTS-22010055" and enter the default password "ESS12345" to connect DTU.

Settings WLAN	Edit
WLAN	
NETWORKS	
chuneng03	€ 奈 (1)
chuneng1	ê 🗢 🚺
DTS-22010043	ê 🗢 🚺
DTS-22010053	ê 🗢 🚺
DTS-22010055	∽ ≜ ≈ ()
DTSW-20143000	<b>≈</b> (i)
DTU-W100	- ≈ (1)
DTU-W100_Wi-Fi5	ê 🗢 i
DTUP-80100754	÷ (j)
HM_GUEST	ê 🗢 і
HM_OFFICE	ê 🗢 i
HM_RDC	ê 🗢 (ì)



b. Open the App and choose the "O&M  $\rightarrow$  Network Config  $\rightarrow$  DTU AP Password Setting". Enter the original password and new password, tap "Send to DTU", and wait until "Setting succeed" appears to reconnect the DTU.





DTU AP Password Setting	Ē.	С
Original Password	Enter	0
New Password	Enter	۲
Confirm Password Password must be betwee of letters, numbers, or spe	Enter n 8 and 16 characters, cial characters.	<ul> <li>consisting</li> </ul>
Confirm Password Password must be betweee of letters, numbers, or spe	Enter n 8 and 16 characters, cial characters.	© consisting



### Note:

The Wi-Fi name and password do not support special characters such as spaces.

### 3.2.2.3 Reset the Password of DTU

When the DTU is powered on, long press the "SET" button on the left of DTU for 5 seconds (DTU indicators will be off during the long press), and then the DTU password will be restored to default password "ESS12345".



### 3.2.2.4 Reconfigure the Network of DTU

a. Choose the wireless network of DTU with serial number like "DTS-22010055" and enter the default password "ESS12345" to connect DTU.

Settings	WLAN	Edit
WLAN		
NETWORKS		
chuneng	g03	ê 奈 (j)
chunen	g1	ê 🗢 i
DTS-22	010043	ê 🗢 🚺
DTS-22	010053	ê 후 🚺
DTS-22	010055 🔍	() ÷ ()
DTSW-2	20143000	≈ (j
DTU-W	100	<b>→</b> ≈ (j)
DTU-W	100_Wi-Fi5	ê 🗢 i
DTUP-8	0100754	÷ (j)
HM_GU	EST	ê 🗢 🚺
HM_OF	FICE	ê 🗢 i
HM_RD	с	ê 🗢 i



b. Open the App, choose " $O&M \rightarrow Network Config$ ", tap the "Reconfigure", and then choose a new wireless network. Enter the account and password, tap "Send to DTU", and wait until "Connection Succeeded" appears to tap "Finish".









### 3.2.3 Toolkit

Tap "Toolkit" to enter the Overview page where you can view the cloud communication information and perform inverter management and relevant settings.

ç	D&M
Capacity	<b>324</b> kW
	Normal: 15
36	<ul> <li>Offline: 20</li> <li>Alarm: 0</li> </ul>
Total	• Unfinished: 1
Energy This Month	(All) Lifetime Energy
34.1 MWh	275.05 MWh
274.23 Ton	Carbon Emission Offset 14,985 Trees
Tools	
-	* @
	× Cr
Alarm	Toolkit
<b>a</b>	
Network Config	
	1

### 3.2.3.1 Inverter Management

a. Tap "Toolkit  $\rightarrow$  Inverter Management", and then tap "Inverter SN" to check the real-time data of PV, Battery, Grid, EPS and Generator. After entering the "Real-time Data" page, you can slide your finger up or down to check the relevant real-time data whichever you want.

< <u>o</u>	verview
Cloud Communicat	ion
DTU-SN: 430122480	747
Last DTU Connection	to the platform: Wi-Fi
Last Connection Stat	is: 🔶
Last Connection Time	: 2023-09-22 10:10:14
Inverter Managem	ent O >
Inverter Status: On-	grid Self-check
Battery Work Status:	Discharging
Update Time: 2023-	09-22 10:10:47
Settings	
Self-check	>
Grid Profile Config	>
Meter Location	>
Generator Setting	>
Network Config	>
Networking	>

b. Tap "Device" to check the basic information of inverter and battery.

	Real-time Data
	Update Time: 2023-04-20 10:37:17
PV 1	
Voltage	0.3V
Current	AO
Power	ow
Daily Energy	0kWh
PV 2	
Voltage	0.4V
Current	AO
Power	ow
Daily Energy	0kWh
Pattony	
Rattory Tune	1
Battery Work C	tatua 0
Foult Code	0
Pault Code	0
Battery SUC	29%
Device	Control
	gm
	$\langle \rangle$

c. Tap "Control" to turn on, turn off or restart the inverter, or restore its default settings.

<	Real-time Data	
	Update Time: 2023-04-20 10:37	17
PV 1		
Voltage	0.3	v
Current	0	A
Power	0\	N
Daily Energy	OkW	h
PV 2		
Voltage	0.4	v
Current	0	A
Power	0\	N
Daily Energy	OkW	h
Battery		
Battery Type		1
Battery Work S	tatus	0
Fault Code		0
Battery SOC	295	%
Device		r
	(	

d. Tap the "Inverter Management  $\rightarrow$  Battery Setting" to set battery type, BMS protocol and battery capacity. (The default setting is "No battery".)

<	Inve	erter
	Inverter SN	Battery Setting
	200422270015	Li-ion Battery
		2

### 3.2.3.2 Settings

### $\star$ Self-check

Make sure that all cables including DC cables, AC cables and communication cables are properly connected, and all AC and DC switches are turned on, and then tap "Self-check" to complete the self-check . If there is any problem, solve it according to the prompts, and tap "Self-check" again to confirm that the problem is completely solved. If there is no problem, this interface will diaplay green checkmarks on the right of these items.

<	Overview	
Cloud Commur	nication	
DTU-SN: 43012	2480747	
Last DIU Connec Last Connection	stion to the platform: Wi-Fi Status: 奈	
Last Connection	Time: 2023-09-22 10:10:14	
Inverter Manag	zement	>
Inverter Status:	On-grid Self-check	
Battery Work Sta	tus: Discharging	
Update Time: 2	023-09-22 10:10:47	
Settings		
Self-check		>
Grid Profile Confi		>
Meter Location Generator Setting	,	> >
Network Config		>
Networking		>

### ★ Grid Profile Configuration

Tap the "Grid Profile Config  $\rightarrow$  ESS Safety Config" to check relevant parameters of grid protection profile and power quality response mode under "HM ESS Safety" where you can choose corresponding grid code. We classify the installer account and user account through authority management, the installer can modify grid protection and power quality response mode parameters.

< Overview
Cloud Communication
DTU-SN: 430122480747
Last DTU Connection to the platform: Wi-Fi
Last Connection Status: 🛜
Last Connection Time: 2023-09-22 10:10:14
nverter Management
nverter Status: On-grid Self-check
Jattery Work Status: Discharging
Jpdate Time: 2023-09-22 10:10:47
iettings
jelf-check >
irid Protile Config
Penerator Setting
Network Config >
Networking >

### ★ Meter Location

Tap the "Meter Location" to configure the grid side meter. The serial number (SN) can be entered manually or identified through scanning the QR code. (For EUG1 series inverter, If the GEN port is connected to the inverter or generator, the PV side meter also needs to be configured.)

< Overview	
Cloud Communication	
DTU-SN: 430122480747	
Last DTU Connection to the platform	: Wi-Fi
Last Connection Status: 奈	
Last Connection Time: 2023-09-22	10:10:14
Inverter Management	>
Inverter Status: On-grid Self-check	
Battery Work Status: Discharging	
Update Time: 2023-09-22 10:10:47	
(	
Settings	
Self-check	>
Grid Protile Contig	>
Meter Location	>
Generator Setting	َ (
Network Config	23

### ★ Generator Setting

Tap "Generator Setting" to enter the generator setting page, tap the corresponding option according to whether the device connected to the GEN port is "Inverter" or "Generator", and then tap "Save". (The default option is "None".)

<	Overview	
Cloud Comm	unication	
DTU-SN: 430 Last DTU Conr	122480747 nection to the platform:Wi-Fi	
Last Connectio	on Status: 奈 on Time: 2023-09-22 10:10:14	
Inverter Man	nagement	>
Inverter Status Battery Work S	s: On-grid Self-check Status: Discharging	
Update Time:	2023-09-22 10:10:47	
Settings		
Self-check		>
Grid Profile Co	onfig	>
Meter Location	n	>
Generator Sett		>
Network Control		>

### ★ Network Configuration

Tap "Network Config" to enter the network configuration page where you can choose the server domain and change other settings, and then tap "Send to DTU". The default status of DHCP is enabled, so the DTS can automatically obtain the router's IP address and connnect to the router. If you want to manually configure the IP address, first disable the DHCP.

< Overview	
Cloud Communication	
DTU-SN: 430122480747	
Last DTU Connection to the platform: Wi-Fi	
Last Connection Status: 🛜	
Last Connection Time: 2023-09-22 10:10:14	
Inverter Management	>
Inverter Status: On-grid Self-check	
Battery Work Status: Discharging	
Update Time: 2023-09-22 10:10:47	
Settings	
Self-check	>
Grid Profile Config	>
Meter Location	>
Generator Setting	>
Network Config	>
Networking	>



DHCP IP 192 168 3 11 MAC Addre AC 08 FB E0 F5 05 Server Domain Chinese Mainland Send to DTU	DHCP IP 192 168 3 11 MAC Addre AC 08 FB E0 F5 06 Server Domain Chinese Mainland Send to DTU	<	Network Config
IP 192 168 3 11 MAC Addre AC 08 FB E0 F5 06 Server Domain Chinese Mainland	IP 192 168 3 11 MAC Addre AC 08 FB E0 F5 06 Server Domain Chinese Mainland	DHCP	
MAC Addre AC 0B FB E0 F5 06 Server Domain Chinese Mainland	MAC Addre AC 08 FB E0 F6 06 Server Domain Chinese Mainland	IP	192 . 168 . 3 . 11
Server Domain Chinese Mainland	Server Domain Chinese Mainland	MAC Addre	AC . 0B . FB . E0 . F5 . 06
Send to DTU	Send to DTU	Server Domain	Chinese Mainland

### ★ Networking

Tap "Networking" to access to the networking page, and tap "Networking" at the bottom left corner to configure relevant settings. The inverter connected to the DTS is the master, and the others are slaves. After the slaves are connected to the master through a communication cable, they can communicate with the DTS. Note that a single DTS can only communicate with up to 10 inverters. If you want to change the master, tap "unbind" to change the master.

<	Overview	
Cloud Comr	munication	
DTU-SN: 43	0122480747	
Last DTU Con	nnection to the platform:Wi-Fi	
Last Connect	tion Status: 奈	
Last Connecti	tion Time: 2023-09-22 10:10:14	
Inverter Ma	anagement	>
Inverter Statu	us: On-grid Self-check	
Battery Work	Status: Discharging	
Update Time:	: 2023-09-22 10:10:47	
Settings		
Self-check		>
Grid Profile C	Config	>
Meter Locatio	on	>
Generator Sel	etting	>
Network Cont	fig	>
Networking	$\bigcap$	>
	ر ا	

### 3.3 Me

Tap the person icon at the bottom right corner to enter the "Me" interface.

		Me	
0	My Account		>
Ð	Reset Password		>
A	Language		>
0	About Us		>
Ø	Grant Data Perm	issions	
		Log out	
			<pre>C</pre>

### 3.3.1 My Account

Tap "My Account" to check your account and modify Email address.

Ме		< My A	ccount
My Account	*	Login Account	HM_ESS_EE
Reset Password	,	Email	$\square$
Language	>		
① About Us >	>		
Grant Data Permissions			
Log out			

### 3.3.2 Reset the Login Password

Tap "Reset Password", enter the original password and new password, and tap "Confirm".

	Ме	
0	My Account	>
Ð	Reset Password	0 >
A	Language	$\left( \begin{array}{c} \\ \end{array} \right) >$
0	About Us	>
Ø	Grant Data Permissions	
	Log out	
		-

### 3.3.3 Change the Language

Tap "Language" and choose the language you prefer.

	М	e
0	My Account	>
Ð	Reset Password	>
A	Language	$\circ$
	About Us	
U	Grant Data Permissions	s
	Log	out

### 3.3.4 About Us

Tap "About Us" to enter the About Us page where you can check the Hoymiles basic information, privacy policy, user agreement, and current version, and enter Hoymiles help center.

	Me	
0	My Account	>
Ð	Reset Password	>
A	Language	>
0		
0	About Us	
Ø	Grant Data Permissions	
	Log out	
		-

# 4. Advanced Configuration

# 4.1 ESS Advanced Configuration

# 4.1.1 System Settings

Parameter	Description	Default Value
Meter Model	Choose Single-phase Meter, Two-phase Meter, or Three-phase Meter according to the meter your inverter connected.	No Meter
Display Brightness	The brightness of the machine display lamp.	10
Generator Port Mode	After the generator port is connected to the inverter or generator, select the corresponding option.	Disable
BMS485_COM_Type	Communication type includes BMS485 and DTU Com. If the RS485 port is connected to the battery, please choose BMS485; if the RS485 port is connected to the microinverter DTU, please choose DTU.COM.	BMS
Grid Import Power Limit	Limit the charging power of grid to the battery. The power input limit must not exceed the inverter power.	The default value is set according to the inverter type.
System Three-phase Unbalance Enable	When the loads of the three-phase inverter are not balanced, enable the system three-phase unbalance function. It can compensate each load.	Disable

# 4.1.2 Battery Settings

Parameter	Description	Default Value
Battery Maximum SOC	Set the maximum battery capacity as recommended by the battery manufacturer.	90%
Battery Minimum SOC	Set the minimum battery capacity as recommended by the battery manufacturer.	10%
Battery Supplementary Power	When the battery emergency charging is enabled, or the battery capacity falls below the minimum battery SOC, the battery charge will be triggered.	200 W
Reserved SOC Supplementary Power	Set the percentage of reserved SOC supplementary power. (When the battery SOC falls below reserved SOC, the battery will be charged at this percentage.)	0
Battery Grid Feed Power in Peak Time	Set the percentage of battery feed-in power in peak time.	100%
Bat Discharge Power in Partial Peak Time	Set the percentage of battery disachage power in partial peak time.	100%
MPPT Global Scan Enable	If the PV modules are shaded, enable this function.	Disable

# 4.1.3 Emergency Power Supply (EPS) Settings

Parameter	Description	Default Value
	When the EPS port is connected, you can choose "EPS" or "UPS". You can choose "UPS" when the load keeps power on, and the on- grid mode and off-grid mode will automatically switch to each other under UPS mode. EPS is characterized by continuous power supply, which means that the loads are powered by bypass under normal power supply, and the DC power will be inverted to supply the loads during power outage, maximizing energy	
EPS Mode	utilization. UPS is a kind of uninterrupted power supply which has stable voltage and frequency, and has an extremely high requirement for switching time. UPS not only operates during power outage, but also can output high quality power supply to ensure normal operation of electric equipment when such abnormal situations of power supply as overvoltage, undervoltage and surge occur.	EPS
	When the inverter is used as a PV inverter, choose "Disable".	
PV Off-grid Mode Enable	In off-grid mode, PV can also operate without the battery. (Under this mode, the system is unstable, so this function is not recommended.)	Disable

# 4.1.4 Isolation Resistance (ISO) Settings

Parameter	Description	Default Value
Minimum Isolation Resistance	This function is to detect whether there is an ISO fault, and it is enabled by default. When the resistance detected is lower than the minimum isolation reisitance, the inverter will be shut down.	Single-phase: 50 Three-phase: 100

# 4.2 ESS Safety Configuration

### 4.2.1 DRM Setting

Tap "Toolkit  $\rightarrow$  Grid Profile Config  $\rightarrow$  ESS Safety Config" to configure the DRM setting. Tap the "DRM Function Activated" to enable the DRM function. (This function is disabled by default.)



< Overview	
Cloud Communication	
DTU-SN: 430122010044	
Last DTU Connection to the platform: WIF	I
Last Connection Status: 🛜	
Last Connection Time: 2023-04-20 10:29	:05
Inverter Management	>
Inverter Status: Fault Mode	
Battery Work Status: Standby	
Update Time: 2023-04-20 10:30:31	
Settings	
Self-check	>
Grid Profile Config	>
Meter Location	>
Generator Setting	
Network Config	>

< Grid Profile	Config	
ESS Advanced Config ESS	Safety Conf	ig
HM ESS Safety	AU_AS4	777_C V
Safety		
Safety Nominal Voltage	230	V(230~23
Safety Nominal Frequency	50	Hz(50~50
DRM Function Activated		
Anti-islanding Function Activated		
Voltage Ride Through (VRT)		
VRT Function Code	118	(118~118
High Voltage 2 (HV2)	275	V(230~28
Maximum Trip Time (MTT)	0.2	s(0.1~0.2
High Voltage 1 (HV1)	265	V(230~2
Maximum Trip Time (MTT)	2	s(1~2)
Low Voltage 1 (LV1)	180	V(50~20
Maximum Trip Time (MTT)	11	s(10~11)
Sav	° Qr	7
	(	

### 4.2.2 Export Limit Settings

Tap "Toolkit  $\rightarrow$  Grid Profile Config  $\rightarrow$  ESS Safety Config" to configure export limit settings. If you want to set export limitation parameters, slide your finger up, tap "Function Activated" under "Generation Control Function (GCF)" to enable this function, and fill in relevant parameters according to local power grid policy.

O&M		
Capacity	<b>324</b> kW	
36 Total	<ul> <li>Normal: 15</li> <li>Offline: 20</li> <li>Alarm: 0</li> <li>Unfinished: 1</li> </ul>	
31 Energy This Month 34.1 MWh	Lifetime Energy 275.05 MWh	
274.23 Ton	14,985 Trees	
Tools		
Alarm	X Cm	

Cloud Communication		
DTU-SN: 430122010044		
Last DTU Connection to the pla	tform: WIFI	
Last Connection Status: 🔶		
Last Connection Time: 2023-04	4-20 10:29:05	
Inverter Management		/
Inverter Status: Fault Mode		
Battery Work Status: Standby		
Update Time: 2023-04-20 10:3	80:31	
Settings		
Self-check		>
Grid Profile Config	$\cap$	>
Meter Location		>
Generator Setting		>
Network Config		>

< Grid P	rofile Config	ı.
ESS Advanced Config	ESS Safety Co	onfig
Volt-Var Function Code	0	(0~65535)
Voltage Set Point V1	93	%(93~93)
Voltage Set Point V2	97	%(97~97)
Voltage Set Point V3	1 103	%(103~103
Voltage Set Point V4	fm 107	%(107~107
Reactive Set Point Q1	<b>√</b> _∈	%(0~100)
Reactive Set Point Q2	~	%(0~100)
Reactive Set Point Q3	0	%(0~100)
Reactive Set Point Q4	43.6	%(0~100)
Active Power Control (APC)		
Generation Control Function (GCF)		
GCF Function Code	1	(1~1)
Function Activated		
Export Soft Limit Ratio	0	%(0~200)
	Save	

### Note:

For more settings about ESS safety configuration, you can slide your finger up or down to view or modify relevant settings.



S-Miles Installer



S-Miles End-user

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