







Download Manual

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GR-UM-251-A-00



MIN 3K-11.4K TL-XH-US & Commissioning Guide

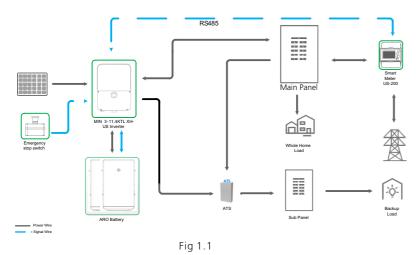
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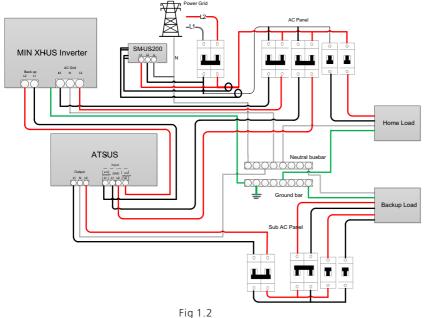
1 Power on the system

1.1 Energy Management System Introduction

MIN 3K-11.4KTL-XH-US energy storage system diagram is shown in the figure below:



The system wiring diagram is as follows:



1.1.1 System Configuration Contains

Energy Storage System / Off-Grid System.

- ▶ MIN 3-11.4KTL-XH-US inverter.
- \blacktriangleright ARO battery(s).
- > ATS.

Electric meter SM-US-200.

Inverter Grid-Connected System.

▶ MIN 3-11.4K TL-XH-US inverter.

Electric meter SM-US-200 (**Optional**).

Product	Model	Function	Note
Inverter	MIN 3K-11.4KTL-XH-US	Energy conversion	
ARO Battery	ARO 6.6-9.9L-C1-US	Energy storage	UP TO 4
ATS	ATS 5K/11.4KT-US	EPS switching	
Smart meter	SM-US-200	Energy management	
Button	RSD Button	Rapid shutdown	Accessory (included in the package)

1.2 Check System Installation & Power On

All components were installed according to the installation guides, please check the following highlighted installation locations:

Power on the system according to the MIN 3000-11400TL-XH-US Quick Guide which is included in the inverter package/box.

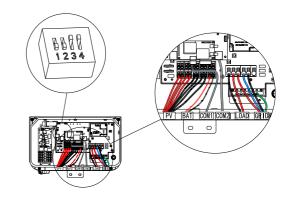


Fig 1.3 Inverter Box Wiring Diagram

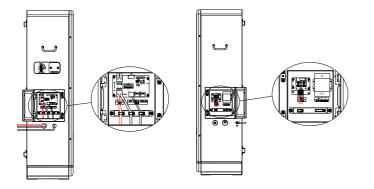


Fig 1.4 ARO Battery Wiring Diagram

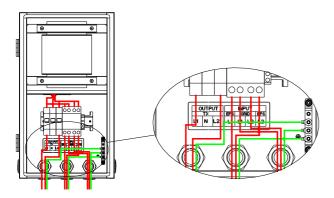


Fig 1.5 ATS-5K Wiring Diagram

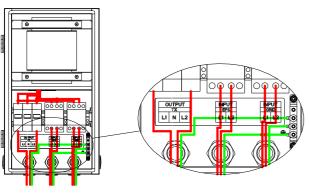
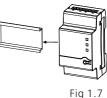


Fig 1.6 ATS-11.4K Wiring Diagram

1.2.1 Installation and Wiring of Electric Meter SM-US-200

a) Meter Mounting

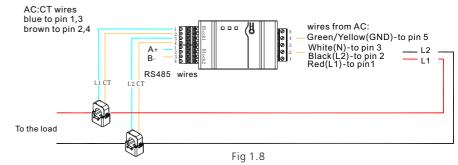
- > The meter should be mounted in a Power Distribution Box.
- Mount the meter on a 35mm DIN rail.

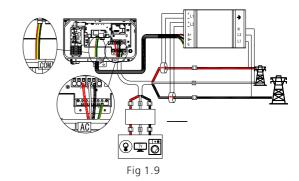


b) CT Installation

Install the two CTs with the Arrow pointing to the LOAD.

- Make sure the CT of L1 matched L1 input of the Service Panel that also match the L1 to the inverter.
- Make sure the CT of L2 matched L2 input of the Service Panel that also match the L1 to the inverter.
- c) Meter Wiring
- When connecting the meter to the inverter, refer to the connection diagram below.





RS485 cables Ground, B- & A+ was installed from the left to right when facing the meter, Please refer to the silk screen on the meter.

2 ShineTools APP Setup

2.1 APP Download

There are two ways to download the ShineTools APP:

a) Scan the QR code

Scanning the QR code through phone camera for downloading the APP.



Fig2.1 ShineTools App QR code

b) APP Store

- Search for ShineTools App from app stores (App or Play Store).
- > The ShineTools App icon is displayed the same as the Figure 4.
- > Download and install the App by following the installation instructions.



Fig2.2 ShineTools App QR code

2.2 APP Introduction

ShineTools is used to connect the inverter with built-in WIFI at close range. We can view the inverter system information and system fouction settings with it.

2.3 Connecting to Local Wi-Fi Network

The steps for using APP are as follows:

1.Login interface	2.Enter the default password and log in	3.Tap in Direct WiFi
No SIM 🕈 5:01 PM @ 14% 🕞	The default password is oss+ day. Ex: if today's	No SIM 🗢 5:01 PM 👳 14% 💽 Installation Manual
ShineTools	date is Dec 29, 2020, the default password would be oss20201229, You can change the password	Please select a debugging tool
End User O&M User	according to the prompts below.	USB/232-WIFI >
Enter password		ChineWiFI-S/X (Only supports datalogger with version 3.0.0.2 / 3.1.0.2 or above)
Automatic Log-in Forgot password		Cirect WiFi (MIN TL-XH-US)
4. Tap in Go to set	5. Open the Wi-Fi settings on the mobile phone	at the left side of the invert
No SIM 5:03 PM @ ◀ 16% 😥	on the mobile phone 5:46t so < Settings WLAN	6. The Wi-Fi name is the Serial Number on the lab at the left side of the invert The Wi-Fi password is 12345678
No SIM 5:03 PM @ ◀ 16% 😥	on the mobile phone 5:46 and 50 Settings WLAN	Serial Number on the lab at the left side of the invert The Wi-Fi password is
No SM 5-03 PM @ + 18% IED Currently Connected WIFI	on the mobile phone Si46 and so Sottings WLAN WLAN WLAN New WLAN Anteroork connections have been turned off them Control Center. Wr NCTWORKS CRH0A45005	Serial Number on the lab at the left side of the invert The Wi-Fi password is 12345678
No SM 5-03 PM @ + 18% IED Currently Connected WIFI	On the mobile phone 5:46	Serial Number on the lab at the left side of the invert The Wi-Fi password is 12345678
No SM 5:03 PM (115% HD) Carrently Connected WiFi Go to set >	on the mobile phone 5:46	Serial Number on the lab at the left side of the invert The Wi-Fi password is 12345678
No SM 5:03 PM (115% HD) Carrently Connected WiFi Go to set >	on the mobile phone Side will so ● Side will so ● WLAN WLAN ● New WLAN network corrections have been turned off francoard Center. ● Mr NETWORKS ● ● GUIOJIANBAO ● ● MGD ● ● OTHER NETWORKS ● ● 1440813651358 ● ● ● 1f ● ● ● ChuNengLab ● ● ●	Serial Number on the lab at the left side of the invert The Wi-Fi password is 12345678
No SM 5:03 PM (115% HD) Carrently Connected WiFi Go to set >	On the mobile phone 5:46	Serial Number on the lab at the left side of the invert The Wi-Fi password is 12345678
No SM 5:03 PM (115% HD) Carrently Connected WiFi Go to set >	On the mobile phone 5:46	Serial Number on the lab at the left side of the invert The Wi-Fi password is 12345678
No SM 5:03 PM (115% HD) Carrently Connected WiFi Go to set >	On the mobile phone 5:46	Serial Number on the lab at the left side of the invert The Wi-Fi password is 12345678

No SIM 🗢	4:47 PM	@ 1 30% 🚱	No SIM 🗢	7:53 PM TL-XH-US	€ 1 7%⊡	Now this APP has been
K Back	WLAN		< WLAN	Standby	Auto refresh	connected to the built-in WIFI of the inverter.
			Generation	1.5kWh	23.2kWh	
			(kWh)	Today	Total	
			Charged	0.0kWh	0.0kWh	
	114/171		(kWh)	Today	Total	
Currently Co	onnected WiFi		Discharged	0.0kWh	0.0kWh	
	45		(kWh)	Today	Total	
MMLDS123	145	Go to set >	Energy Exported	0.0kWh	0.0kWh	
			(kWh)	Today	Total	
			O Consumption		50.5kWh	
			(kWh)	Today	Total	
	Next		Current Power Pow			
			-4532.7W 11400	0.0W 3335.	0.0W	
			Import power:	9340.0W	Dry contact 🛇	
			🔥 Fault 0	6	Warning 0	
			E)	Ĝ	ö	
			Quick Setting	System	Grid Code	

Note:

When no data was present, the communication connection is unsuccessful and you will need to reconnect the build-in WIFI of the inverter by turning off Wifi setting in the phone and turn on again OR power cycle the system.

Also, keep the mobile phone within 3 meters of the inverter to ensure stable connection between phone and inverter.

2.4 Local Commissioning Main Interface Introduction

The main interface of local commissioning consists of three parts:

	er gene matior			Fault warning message				informat and para	
No SIM *		7:53 PM TL-XH-US •Standby	€ 1 7% []. Auto refresh	no sim 🗢 ✔ WLAN	7:53 PM TL-XH-US •Standby	€ 1 7% 🕞 Auto refresh	No SIM 🗢 🗸 WLAN (KWII)	7:53 PM TL-XH-US •Standby	€ 1 6% Auto refresh
(1)	Generation (kWh)	1.5kWh Today	23.2kWh	Generation (kWh)	1.5kWh Today	23.2kWh Total		Iominal Charging Power Power 100.0W 3335.0V	Power
0	Charged (kWh)	0.0kWh Today	0.0kWh	Charged (kWh)	0.0kWh Today	0.0kWh	Import power:	9340.0W	Dry contact 🛇
0	Discharged (kWh) Energy Exported to the Grid (kWh)	0.0kWh Today 0.0kWh Today	0.0kWh Total 0.0kWh Total	C Discharged (kWh) Energy Exporte (kWh)	0.0kWh Today ^d 0.0kWh Today	0.0kWh Total 0.0kWh Total	🛕 Fault	0 🚺 W	'arning <mark>0</mark>
0	Consumption (kWh)	Today	50.5kWh Total	Consumptio		50.5kWh Total	E)	Ĝ	ö
	nt Power Power Power	ver Powe	r Power	Current Power Po	ver Powe	er Power	Quick Setting	System Configuration	Grid Code
Imp	32.7W 1140	9340.0W	Dry contact 🚫	-4532.7W 1140 Import power:	9340.0W	Dry contact 🚫	S EMS	Smart Diagnosis	Hit Parameters
	Fault (Warning 0	A Fault (Warning 0	Advanced	Device Information	
Qu	=) uick Setting	System Configuration	Grid Code	E Quick Setting	System	Grid Code			

3 Grid Code Mapping Table

The factory Default grid mode of the inverter is IEEE1547-240, which can adapt to the most power grids. The different grid code can be changed according to local regulation in the network configuration interface from Quick Setting in ShineTools App.

No.	Grid Code	Description	No.	Grid Code	Description
1	HECO-208	US Hawaii low- voltage power grid	2	HECO-240	US Hawaii low- voltage power grid
3	IEEE1547-208	US low-voltage power grid	4	IEEE1547-240	US low-voltage power grid
5	PRC-East-208	Eastern US low- voltage power grid	6	PRC-East-240	Eastern US low- voltage power grid
7	PRC-Quebec- 208	Canada Quebec low-voltage power grid	8	PRC-Quebec- 240	Canada Quebec low-voltage power grid
9	RULE21-208	US California low- voltage power grid	10	RULE21-240	US California low- voltage power grid

Wi-Fi Network Configuration 4 First time install the inverter, the inverter needs to be configured to connect to the home

Wi-Fi to ensure the remote monitoring.

WLAN TL-XH-US Auto refresh Standby	No SIM 🗢 7:54 PM	e ⊀ 6% ⊡- Read	No SIM 7:54 PM K Back Configure the ne	@ 1 6% ⊑ etwork
(kwn) Ioday Iotal Current Power Nominal Charging Discharging	Network Type	>	Network configuration O WIFI	O LAN
-4532.7W 11400.0W 3335.0W 0.0W	Power Sensor Electric	Meter >	method	U LAIN
Import power: 9340.0W Dry contact S	Grid Code	>	Enter name of router	
A Fault 0 👩 Warning 0	Voltage Level		Enter the router password	ø
	EMS i TOU-Ch	arging		
	AC Couple 使能		Server address	
Quick Setting Configuration Grid Code	Battery Diagnosis	>	server-us.growatt.com	~
Quick setting Configuration Grid Code	Output Mode Split P	hase		
🎭 😔 🚻	Time 2021-12-27	19:52:22	server-us.growatt.com	~
Network configuration WIFI O LAN	Network configuration method	O LAN		
💮 MGD				
T NOV	â	ø		
	Serve Configuration succes	isful		
â ø		isful		
Server address	Serve Configuration succes			

password and antenna installation connection, and then try again. Notice: The inverter does not support 5GHz WiFi network.

5 Energy Management System

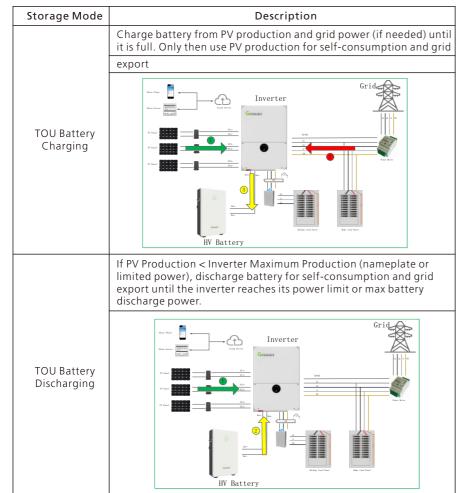
Notice: First time install the energy storage system, charge the battery for at least 1 hours or up to 60% SOC before powering off the system. This action will keep up the battery power to avoid running out while waiting for PTO.

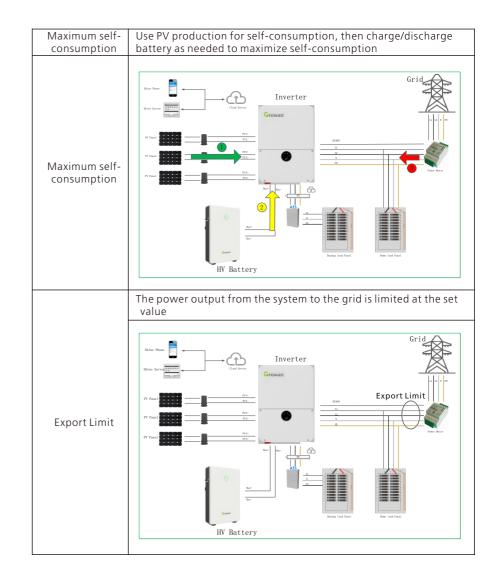
There are two ways to charge the battery.

- The first is to connect the PV array to the PV of the inverter and turn off the AC output breaker of the inverter.
- The second method is to connect the AC output of the inverter to the grid without any PV input, set the EMS mode of the system to TOU Battery Charging (5.2.3), and turn on the AC charging function (5.2.2).

5.1 Management System Mode Introduction

The MIN 3K-11.4K TL-XH-US system provides four energy storage modes to choose from. .





5.2 Energy Management System setting

For the photovoltaic energy storage system, several functions of the system need to set after the first installation and power-up.

5.2.1 Power Sensor Setting

If an electric meter is installed in the system, please set. Factory Default is Disabled.

Note: Power Sensor: iOS = Electric meter Android = Meter

3.Enter network 2.Choose Network 1. Tap in Quick Setting icon configuration information No SIM 穼 7:59 PM No SIM ? 7:58 PM @ 1 6% No SIM 穼 7:53 PM @ 🕇 6% 🗔 @ 🕈 6% 🗔 TL-XH-US < WLAN Auto refresh < Quick Setting Read Quick Setting -Standby (KWD) Network Type Nominal Power Charging Power Discharging Power Current Power Power Sensor Electric Meter -4532.7W 11400.0W 3335.0W 0.0W Electric Meter 9340.0W Dry contact & Import power: Grid Code Grid Code Voltage Level oltage Level 🔥 Fault 👔 Warning 0 0 EMS(i) TOU-Charging None AC Couple 使能 E ö Ĝ Electric Meter Battery Diagnosis System onfiguration Grid Code uick Settin Cancel Output Mode Split Phase \odot 봚 \$ 2021-12-27 19:52:22 2021-12-27 19:52:22 Time EMS Smart Diagnosis Parameters 20 -Device Information Advanced 5. Prompt message for 4. Tap in setting successful setting No SIM 穼 7:59 PM @ 🕈 6% 🗔 No SIM 穼 7:59 PM @ 1 6% 🕞 < Quick Setting Read < Quick Setting Read Network Type Network Type Electric Meter Power Sensor Power Sensor Electric Meter Grid Code Grid Code Voltage Level Voltage Level TOU-Charging EMS TOU-Charging EMS AC Couple 使能 AC Coup Succeed Battery Diagnosis Battery I Yes Split Phase Split Phase Output Mode Output Mode Time 2021-12-27 19:52:22 2021-12-27 19:52:22 Time

5.2.2 AC Charging Setting

The AC charging is used to set whether to allow charging the battery from the Grid. Factory Default is Disabled.

Discharge Management	<u> </u>				
No SIM	No SIM 🗢 7:59	PM @ 1 6%	No SIM 🗢	8:00 PM	€ 1 6%
KWLAN Standby Auto refresh	<		<		
Current Power Nominal Charging Discharging Power Power Power	Time Slot Priority Setting of Charge/Discharge	>	Time Slot Priori of Charge/Disch		>
-4532.7W 11400.0W 3335.0W 0.0W	Enable AC Charging		Enable AC Cha	rging	
Import power: 9340.0W Dry contact S	Charging Power Ratio	100% >	Charging Pow	er Ratio	100% >
A Fault 0 🙆 Warning 0	Stop Charging SOC	100% >	Stop Charging	SOC	100% >
	Dischrage Power Ratio	100% >	Disch 7	Succeed	10%>
Cuick Setting System Grid Code	Stop Discharging SOC	28% >	Stop D	Yes	<mark>:</mark> 8% >
Quick Setting Configuration Grid Code	Battery Mode Setting	Self Consumption >	Battery Mode S	Setting Self C	onsumption >
🍫 😔 🚻					
EMS Smart Diagnosis Parameters					
2.					
Advanced Device Information					

5.2.3 EMS Mode Setting:

If an ARO battery is installed in the system, you need to set the energy storage mode.

Factory Default is Maximum Self-Consumption.

Example: If the energy storage system is to be used as backup and only use the battery when the grid is powered off, set the battery charging and discharging time period to 24 hours for TOU Battery Charging.

I.Tap in EMS	Tap in EMS2.Tap in Time Slot			
No SIM ♥ 7:53 PM @ 1 6% □ ✓ WLAN TL-XH-US -Standby Auto refresh (KWII) 10049 10041	No SIM 🗢 7:59 PM	e 1 6% 💭	No SIM 🗢 8:00 PI	
Current Power Power Power Power	Time Slot Priority Setting of Charge/Discharge	>	Select Date	1~12 >
-4532.7W 11400.0W 3335.0W 0.0W	Enable AC Charging		Enable	
Import power: 9340.0W Dry contact (S)	Charging Power Ratio	100% >	Time Period ?	
🔥 Fault 0 📋 Warning 0	Stop Charging SOC	100% >	Time Period 1	
	Dischrage Power Ratio	100% >	00:00~23:59	>
🗗 😫 🔁	Stop Discharging SOC	28% >	Weekday TOU-Chargin	
Quick Setting System Grid Code Configuration	Battery Mode Setting Sel	f Consumption >	Enable	
🍫 😔 🚻				
EMS Smart Diagnosis Parameters				
≈ ≣				
Advanced Device Information				

or Backup ONLY sc				i .	 set, Four quarters can be
4.Select the TIME to		5.Select the		be set	set
You only need to sel	ect the s	eason or year	to set.		
No SIM * 8:00 PM K Back Time period setting	e 16%		ect Date	@ 1 6% 🗁	NoSM � 8:02 PM ⊛ 16% □
Select Date	1~12 >	Select Date			Select Date
Enable		Annual Q	uarter Spec	cial Day	Annual Quarter Special Day
Time Period ?		1~12			Quarter 1 Quarter 2 Quarter 3 Quarter 4
Time Period 1			7011.01		1 - 3
00:00~23:59		EMS	TOU-Cha	arging >	
Weekday TOU-Charging					_
Enable		Enable			Enable
					Save
Maximum support 9		6.Set the mo time period		in the	7. If you need to set mor quarter or time periods,
Maximum support 9 periods No SM 🕿 B:04 PM	e 1‰⊡	6.Set the mo		in the	7. If you need to set mor quarter or time periods, need to operate step 4, 5, 6
Maximum support 9 periods) time	6.Set the mo time period	ode with		7. If you need to set mor quarter or time periods, need to operate step 4, 5, 6 multiple times You can a
Maximum support 9 periods No SM 🕿 B:04 PM	e 1‰⊡	6.Set the mo time period	ode withi		7. If you need to set mor quarter or time periods, need to operate step 4, 5, 6 multiple times You can a set the energy storage mode for special days if
Maximum support 9 periods No SM & BOOL PM & Back Time period setting	e time Read	6.Set the mo time period No SM ♥	Dde withi 8:04 PM time period	@ 1 6%	7. If you need to set mor quarter or time periods, need to operate step 4, 5, 6 multiple times You can a set the energy storage
Maximum support 9 periods No SM ® BOLEPM & Back Time period setting Select Date Enable) time	6.Set the mo time period	BIO4 PM BIO4 PM time period	⊛ 1 6%⊡> Week >	7. If you need to set mor quarter or time periods, need to operate step 4, 5, 6 multiple times You can a set the energy storage mode for special days if
Maximum support 9 periods No SM ® BOLEPM 					

6 Battery Life Maintenance (Important)

- a) TUnplug Battery power, Battery Communication cables and turn OFF battery modules power (Check battery quick installation guide for the detail). if the following conditions were met:
- > The installation is not completed.
- No PV and AC power can charge the battery.
- b) Charge the battery SOC above 60% or higher after installation is complete and pending for AHJ/city review and approval.

Commissioning Error Code 7 Troubleshooting

Enter the local commissioning home page, and view the fault and alarm information on the main interface if there are exist after installation. The fault and alarm code on the ShineServer Page will be the same in the APP.

If you find a fault or alarm, please click it, and then you will be redirected to the interface of fault explanation and handling tips.

iosim ? ✔ WLAN	2:01 PM TL-XH-US	© イ 95% 🚮	No SIM 🗢	2:01 PM Fault Warning	● 1 95%
(MEAN	-Standby	Autorenesii	`	Fault warning	
Generation	1.3kWh	24.6kWh	A Fault	0(00)	
(kWh)	Today	Total	-		
Charged	0.0kWh	0.0kWh			
(kWh)	Today	Total			
Discharged	0.0kWh	0.0kWh			
(kWh)	Today	Total			
Energy Export to the Grid	^{ed} 0.0kWh	0.0kWh			
(kWh)	Today	Total	_		
O Consumpti	on 5.3kWh	57.1kWh	👔 Warr	ning 300(00)	
(kWh)	Today	Total			
	minal Chargi ower Powe		No Utility		
	00.0W 692.1		2. If the fai	onfirm whether the gr ult message still exists	
Import & Export F	Power: 0.0W	Dry contact 🛇	the manuf	acturer	
A Fault	0(00)	Warning 300(00)			
E\$		8			
-/	N E	v			
Quick Setting	System	Grid Code			

1. Common Fault and warning Codes

Fault code	Fault name	Possible cause	suggestion
Error 200	AFCI Fault	There is a problem on the wiring connection	 After shutdown, check the panel terminal. Decrease AFCI sensitivity and restart. If error message still exists, contact manufacturer.
Error 201	Residual current High	PV panel insulation problem	 Restart inverter. (Related to Grounding fault?) If error message still exists, contact manufacturer.

			1
Error 202	PV Voltage High	Too many PV panels connected in series	 Immediately disconnect the DC switch and check the PV voltage. If the fault code still exists after the normal voltage is restored, contact manufacturer.
Error 203	PV Isolation Low	PV panel insulation problem	1. Check PV panel and wiring.
Error 204	PV Reversed	PV positive and negative are reversed	 After shutdown, Check the inverter terminal. Restart inverter. If error message still exists, contact manufacturer.
Error 300	AC overvoltage	Grid voltage overvoltage	 Check grid voltage. If the error message still exists despite the grid voltage being within the spec range, contact manufacturer.
Error 301	AC reversed	AC wiring error	 Check AC terminals. If error message still exists, contact manufacturer.
Error 302	No AC Connection	No AC Connection	 After shutdown, Check AC wiring. If error message still exists, contact manufacturer.
Error 303	NE abnormal	N or PE wring error	1.Check PE wiring. 2.Check N wiring.
Error 304	AC F Outrange	Abnormal grid frequency	 Restart inverter. If error message still exists, contact manufacturer.
Warning 217	BDC Abnormal	ARO battery error	1.Check ARO battery terminals 2.Check the connection. between the inverter and the ARO battery.
Warning 218	BDC Bus Disconnect	Inverter and BDC wiring failure	 Check the wire connection between the inverter and the ARO battery. If error message still exists, contact manufacturer.

ShineServer Operation 8

ShineServer is the online monitoring platform that allows remote access through the ShinePhone App or any web browser. However, the premise is that the Wi-Fi network has been configured.

Account and plant information will be the same in both the web browser version and on the ShinePhone App.

8.1 Register an Account

a) Log in to our monitoring website http://server-us.growatt.com and click Register an Account.



b) Fill in the appropriate information on the registration interface and log into the account after the registration is completed.

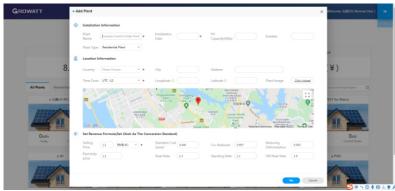
GROWATT	Register				Back To Log
		User			
		Country			
			No More Than 30 Characters		
			Not Less Than 6 Digits		
			Not Less Than 6 Digits		
		Language	English	• •	
		Phone Number			
		E-Mail			
		Installer Code			
		01	have read and agree to the (Privacy policy)		
			Next		

8.2 Create a power plant

- a) When you log into your account for the first time, you will be prompted to register a power plant.
- b) Click Add Plant on the upper right hand corner to create a power plant. A single account can contain multiple power plants.



c) Fill in the appropriate power plant information in order to complete the power plant creation.



8.3 Add Data Logger to power plant

a) Click on the power plant just created, enter the power plant page, and then add a data logger. The SN number of the collector is on the barcode on the side of the inverter, starting with VC. A power plant can contain multiple data loggers.





b) When you have completed these steps, you will be able to view the inverter system remotely through the ShinePhone APP and through any browser.

9 Shinephone Introduction

9.1 APP Download

There are two ways to download the ShinePhone APP: c) Scan the QR code



Fig 9.1 ShinePhone downloading QR code

Scanning the QR code through WeChat or IOS's Camera, then download the APP. d) APP Store

Search for ShinePhone from app stores, download the installation package, and install the ShinePhone app by following the instructions.the ShinePhone icon is displayed on the home screen.

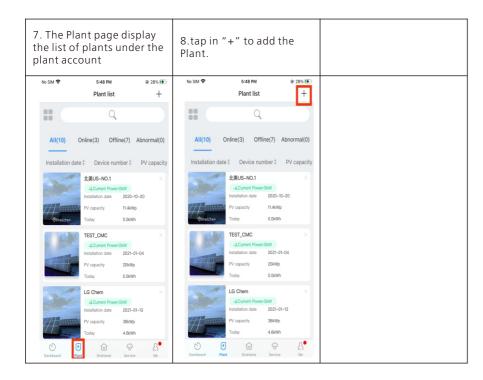


Fig 9.2 Icon of APP

9.2 APP Introduction

Shinephone can remotely monitor the inverter system information, which has the same function as shineserver, and the two information are shared. We can also register and create power stations through the shinephone app.

1.Tap in Register	Notice: Fo ask for yo you fill yo your PV sy authorize	 nicate with the inverter 2. Fill the register info, Notice: For Installer code: ask for your installer, once you fill your installer code, your PV system would be authorized and monitored by your installer. 		3.Fill the plant info		
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