







Download Manual

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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:



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



The AC Couple system wiring diagram is as follows:



Fig 1.4

1.1.1 System Configuration Contains

Energy Storage System / Off-Grid System.

▶ MIN 3-11.4KTL-XH-US inverter.

ARO battery(s) or LG battery(s).

► ATS.

Electric meter SM-US-200 . Integrated in SYN 200-XH-US.

MIN 3-11.4K TL-XH-US inverter.

≻ ATS.

Product	Model	Function	Note
Inverter	MIN 3K-11.4KTL-XH-US	Energy conversion	
ARO Battery	ARO 6.6-19.8H-C1-US	Energy storage	UP TO 4
LG Battery	RESU10H/16H Prime	Energy storage	UP TO 2
ATS	SYN 200-XH-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 1.5 Inverter Box Wiring Diagram

- ARO Battery Wiring Diagram please refer to ARO 6.6-19.8H-C1-US Quick Guide.
- ▶ LG Battery Wiring Diagram please refer to LG RESU10H/16H Prime Quick Guide.
- SYN 200-XH-US Wiring Diagram please refer to SYN 200-XH-US Quick Guide.

1.2.1 Communication cables installation between MIN TL-XH-US inverter and SYN 200-XH-US

Connect the signal cable from MIN TL-XH-US inverter RS485 port to SYN 200-XH-US, refer to the connection diagram below.



Fig 1.6

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:

			2 Enter the defau		
1.Login	interface		password and lo	bg in	3.Tap in Direct WiFi
No SIM 🕈	5:01 PM	@ 14% 🍋	The default passw oss+ day. Ex: if to	vord is dav's	No SIM 🗢 5:01 PM @ 14% 🗌 Installation Manual
•	ShineTools		date is Dec 29, 20 default password be oss20201229, change the passw	20, the would You can	Please select a debugging tool
End	User O&M	User	according to the p below.	prompts	USB/232-WiFi >
🔒 Enter	password	19			ShineWFI-S/X (Only supports datalogger with version 3.0.0.2 / 3.1.0.2 or above)
🗌 Automa	atic Log-in Forgo	at password			Direct WiFi (MIN TL-XH-US)
4.Tap in	Go to set	@ 1 16% 😰	5. Open the Wi-Fi on the mobile p	settings bhone	6. The Wi-Fi name is the Serial Number on the lab at the left side of the invert
4.Tapin ™SM &Back	Go to set 5:03 PM WLAN	₽ 1 16% ∰) 	5. Open the Wi-Fi on the mobile p 5:46 Settings WLAN	settings phone	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
4.Tapin ∾sm ≰Back	Go to set	€ 1 18%€£) 	5. Open the Wi-Fi on the mobile p 5:46 < Settings WLAN New WLAN network connections have be from Control Center.	settings ohone and so en turned off	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
4. Tap in № SM & Back Currently Cd	Go to set boopm WLAN	@ 1 16%(9) Go to set >	5. Open the Wi-Fi on the mobile p 5:46 Settings WLAN WLAN New WLAN entench connections have be from Courier Co	settings phone unt so en turned off e * () e * ()	 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 P/N: 200 0090300 SN: CRH0A45005 D0 FA
4. Tap in No SM	Go to set BO3PM WLAN	@ 1 16%(9) Go to set >	5. Open the Wi-Fi on the mobile p s:46 Settings WLAN WLAN New VLAN entropy connections have be from Control Centrol CRH0A45005 GUOJIANBAO MGD	settings phone unt so en turned eff e e () e e () e e ()	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
4. Tap in No SM	Go to set soapu WLAN	@ 1 18% (£) Go to set >	5. Open the Wi-Fi on the mobile p 5:46 < Settings WLAN WLAN New WLAN network connections have be from Control Center. Mr NETWORKS CRHOA45005 GUOJIANBAO MGD OTHER NETWORKS 1440813651358	settings phone and so ev en turned off e * () e * () e * ()	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
4. Tap in No SM ♦ Back	Go to set boopM WLAN	● 1 10% ① 	5. Open the Wi-Fi on the mobile p 5:46 Settings WLAN WLAN New VLAN antends connections have be two will an antend connections have be two will an	settings phone If so T one humed off if the time of if the	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
4. Tap in No SM & Back Currently Co	Go to set soaph WLAN	<pre>@ 1 16% (£) </pre>	5. Open the Wi-Fi on the mobile p 5:46 Settings WLAN WLAN New WLAN network connections have be from Control Center. MY NETWORKS CRH0A45005 GUOJIANBAO MGD OTHER NETWORKS 1440813651358 1f ChuNengLab	settings phone af so en turned off en turned off	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
4. Tap in No SM	Go to set soapu WLAN	@ 1 18% (£) So to set >	5. Open the Wi-Fi on the mobile p 5:46 < Settings WLAN WLAN New WLAN network connections have be from Control Center. MY NETWORKS CRHOA45005 GUOJIANBAO MGD OTHER NETWORKS 1440813651358 14 ChuNengLab ChuNengLab_SG	settings phone 	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
4. Tap in No SM	Go to set soapu WLAN Connected WiFi	<pre>@ 1 18%1€) 30 to set ></pre>	5. Open the Wi-Fi on the mobile p s:46 Settings WLAN WLAN New WLAN network corrections have be found control Center. Wr NTYOOKS CRH0A45005 GUOJIANBAO MGD CTHER NETWORKS 1440813651358 11 ChuNengLab_5G Growati-C3F	settings phone and so => en turned eff = = () = ()	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
4. Tap in No SM	Gotoset B03PM WLAN	● 1 10% ① 	5. Open the Wi-Fi on the mobile p side Safe Safe Safe WLAN New WLAN anteroch connections have be from Control Centre CRH0A45005 GUOJIANBAO MGD OTHER NETWORKS 1440813651358 11 ChuNengLab_5G Growatt-C3F HKD094326A	settings phone ull so en turned off en turned off en () en (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

7. Tap in	Next		8. Tap in A	uto ref	resh	
No SIM 🗢 ✔ Back	4:47 PM WLAN	€ 1 30% ₩ 	no sim 🗢 ✔ WLAN	7:53 PM TL-XH-US •Standby	€ 1 7% □	Now this APP has been connected to the built-in
			Generation (kWh)	1.5kWh Today	23.2kWh Total	will of the inverter.
			Charged	0.0kWh	0.0kWh	
Currently Co	practed WiEi		(kWh)	Today	Total	
Currently CO	Inected wiri		Discharged	0.0kWh	0.0kWh	
MMLDS1234	45	Go to set >	Energy Exported to the Grid (kWh)	0.0kWh	0.0kWh	
			O Consumption (kWh)	20.2kWh Today	50.5kWh Total	
	Next		Current Power Pow -4532.7W 11400 Import power:	inal Chargi rer Powe 0.0W 3335.0 9340.0W	ng Discharging Power DW 0.0W	
			🔥 Fault 0	0	Warning 0	
			Et	Q.	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:

ower gene nformatior	ration		Fau	t warn	ing me	ssage	Interna viewing setting	l informat I and para	ion meter
no sim 🗢 ✔ WLAN	7:53 PM TL-XH-US •Standby	€ 1 7% 🕞 Auto refresh	No SIM	≎ Lan	7:53 PM TL-XH-US •Standby	€ 1 7% ⊡ Auto refresh	No SIM ♥ 〈 WLAN (KWN)	7:53 PM TL-XH-US Standby	€ 1 6% Auto refresh
Generation (kWh) Charged	1.5kWh Today 0.0kWh	23.2kWh Total 0.0kWh	•	Generation (kWh) Charged	1.5kWh Today 0.0kWh	23.2kWh Total 0.0kWh	Current Power -4532.7W 1	Nominal Charging Power Power 1400.0W 3335.0	Discharging Power N 0.0W
(kWh) Discharged (kWh) Energy Exported	Today 0.0kWh Today	Total 0.0kWh Total 0.0kWb	0	(kWh) Discharged (kWh) Energy Exporter	Today 0.0kWh Today	Total 0.0kWh Total	Import power:	9340.0W	Dry contact (S) Varning ()
(kWh)	Today n 20.2kWh Today	Total 50.5kWh Total	0	to the Grid (kWh) Consumption (kWh)	Today n 20.2kWh Today	Total 50.5kWh Total	E	G	ö
Current Power Powe	ninal Chargi Ner Powe 0.0W 3335.	ng Discharging Power DW 0.0W	Curro -45	ant Power Power Pou 332.7W 1140	ninal Chargi Ner Powe D.OW 3335.0	ng Discharging Power DW 0.0W	Quick Setting	System Configuration	Grid Code
A Fault 0		Warning 0		Fault C	9340.0W	Warning 0	EMS	Smart Diagnosis	Parameters
=>	G	ö		E)	¢.	ö	Advanced	Device Information	
Quick Setting	System	Grid Code	Q	luick 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.

L Tap in Quick Setting icon	2.Choose Network	3.Enter network
	configuration	information
No SIM ♥ 7:53 PM ● 1 0% □	No SIM	No SIM ♥ 7:54 PM @ 1 6% □
Current Power Power Power Power	Network Type	Network configuration O WIFI O LAN method
-4532.7W 11400.0W 3335.0W 0.0W	Power Sensor Electric Meter >	Enter name of router
import power: 9340.0W Dry contact C	Grid Code >	Enter the router password
🔺 Fault 0 👔 Warning 0	EMS (i) TOU-Charging	
	AC Couple 使能	Server address
Quick Setting System Grid Code	Battery Diagnosis	server-us.growatt.com
	Output Mode Split Phase	server-us.growatt.com
EMS Smart Diagnosis Parameters	Time 2021-12-27 19:52:22	
Po Ei	Setting	Connect to the Internet
Information		
1.Tap in Connect to the internet icon	5.Prompt message for	
No SIM � 7:55 PM @ 1 6%	No SIM ♥ 2:04 PM @ 1 93% ■	
K Back Configure the network	K Back Configure the network	
Network configuration method	Network configuration method	
û Ø	<u> </u>	
Server address	Serve Configuration successful	
server-us.growatt.com	serv Yes	
server-us.growatt.com \sim	server-us.growatt.com	
Connect to the Internet	Connect to the Internet	

If the network configuration has failed, please carefully check the Wi-Fi name, 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 Wake up the battery via the battery's force-wake switch button (The forced wake-up switch button of the LG battery is at the bottom of the inverter wiring frame, and the forced wake-up switch button of the ARO battery is on the ARO battery cabinet) and connect SYN 200-XH-US 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

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



5.2.3 Battery type Setting

The Battery type setting is to choose ARO Battery or LG Battery Factory Default is ARO Battery.

15:41 🕈		::! † =	17:15 🕫		::! 🗢 🕪	17:15 🕫	::!! 🗢 🚱
<	MIN TL-XH-US -Standby	Auto refresh	<	Quick Setting	Read	<	Quick Setting Read
Generation	0.0kWh	10.0kWh	Network Type		>	Network Type	
Charged	0.0kWh	0.0kWh	Power Sensor		None>	Power Sensor	None>
O Discharged	0.0kWh Today	0.0kWh Total	Battery type	GRO	WATT Battery>	Battery type	GROWATT Battery
Energy Exported the Grid (kWh)	to 0.0kWh	0.0kWh Total	Voltage Level		240 V	Voltage Level	240 V
O Consumption	0.0kWh Today	10.2kWh Total	EMS ()		Battery First	EMS (Ì)	Battery First
Current Power Nomin 0.0W 764	nal Power Charging 00.0W 0.0V	Power Discharging Power 0.0W	Enable AC Cou Battery Diagno	osis	>	Batter	Battery type GROWATT Battery
🛆 Fault (• 0	Warning 0	Output Mode	2022-0-	Split Phase 4-20 17:15:02	Time	Cancel 2022-04-20 17:15:02
E) Quick Setting	System Configuration	O rid Code					
CMS	Smart Diagnosis	111 Parameters					

5.2.4 AC Couple Setting The AC Couple setting is what the AC COUPLE system needs to set Factory Default is Disabled.

10.411		::!! ≑ ■	15:38 🕇		::!! ≑ ■	15:39 🕇	::!! ♥ ■)
<	Standby	Auto refresh	<	Quick Setting	Read	<	Quick Setting Read
Generation	0.0kWh	10.0kWh	Network Type		>	Network Type	
(kWh) Charged	Today 0.0kWh	0.0kWh	Power Senso	r.	None>	Power Sensor	None
 Discharged 	0.0kWh	0.0kWh	Battery type	GR	OWATT Battery>	Battery type	GROWATT Battery
(kWh) Energy Exported to the Grid	0.0kWh	0.0kWh	Voltage Level		240 V	Voltage Level	240 V
Consumption	0.0kWh	10.2kWh	EMS ()		Battery First	EMS (j)	Battery First
Import & Export Powe	r: 0.0W	Dry contact	Output Mode	OSIS	Split Phase	Output	Succeed Phase Yes
A Fault 0	0	Warning 0	Time	2022-	04-24 15:37:12	Time	Yes 2022-04-24 1 :37:12
E) Quick Setting	System Centiguration	<mark>장</mark> Grid Cede H					

5.2.5 MIN TL-XH-US Inverter communication setting with SYN 200-XH-US MIN TL-XH-US inverter with SYN 200-XH-US needs to set the off-grid and electric meter enable

Factory Default is disable.Off-Grid enable settings are as follows, please refer to chapter 5.2.1 for meter settings

	-					
IN TL-XH-US Standby	Auto refresh	15	:42 🗲 System S	::f. ♥ ■)	15:42 -7 <	배 후 🗩
Colored and Colore	Nawn Cown Cown Cown Cown Cown Cown Cown Co	Inverte Active Export Enable Off-Gr AFCI F	r Power On/Off Power 56 Limitation Setting N-DFE Information al Function	> > > > >	Enable Off-On	d Function
	0.0KWh Toolsy Toolsy 0.0KWh Toolsy 0.0KWh Toolsy 0.0KWh 0.0KW 0.0K	0.0kWh 10.0kWh Total 0.0W 0.0W 0.0W <td>0.0KW 10.6KW 10.6KW Today Today Today OokWA 0.0KWA Colored Today Today Today Today<td>0.0KWh 10.0kWh Today Today Today</td><td>0.0KWh 10.0KWh 100KWh 10.0KWh 100KWh 0.0KWh 100KWh 0.0KWh 0.0KWh 0.0KWh</td><td>DAVWh TOCAWH Total Outward Down Down Do</td></td>	0.0KW 10.6KW 10.6KW Today Today Today OokWA 0.0KWA Colored Today Today Today Today <td>0.0KWh 10.0kWh Today Today Today</td> <td>0.0KWh 10.0KWh 100KWh 10.0KWh 100KWh 0.0KWh 100KWh 0.0KWh 0.0KWh 0.0KWh</td> <td>DAVWh TOCAWH Total Outward Down Down Do</td>	0.0KWh 10.0kWh Today Today Today	0.0KWh 10.0KWh 100KWh 10.0KWh 100KWh 0.0KWh 100KWh 0.0KWh 0.0KWh 0.0KWh	DAVWh TOCAWH Total Outward Down Down Do

5.2.6 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.

1.Tap in EMS	2.Tap in Time Slot	3.Create the date and time period.
No SIM ♥ 7:53 PM @ 1 6% □	No SIM 🗢 7:59 PM @	1 6% № SIM 8:00 PM @ 1 6% A Time period setting Read
Current Power Nominal Charging Discharging 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 ()	Charging Power Ratio 10	00% > Time Period ?
A Fault 0 🙆 Warning 0	Stop Charging SOC 10	00% > Time Period 1
	Dischrage Power Ratio 10	00% > 00:00~23:59 >
E) 🕄 🔁	Stop Discharging SOC	28% > Weekday TOU-Charging
Quick Setting System Grid Code Configuration	Battery Mode Setting Self Consump	Enable
🕵 😔 👬		
EMS Smart Diagnosis Parameters		
≈ ≣		
Advanced Device Information		



Battery Life Maintenance 6 (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.

7 Commissioning Error Code 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.



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.

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	1.Check AC terminals. 2.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.

8 ShineServer Operation

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.



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.

Shinephone Introduction 9

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.

Setup local Wi-Fi to communicate with the inverter						
1.Tap in Register	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				
No SIM 🗢 5:38 PM @ 2011 💽	No SIM 🗢 5:38 PM @ 21% 😥	No SIM 🗢 5:46 PM @ 28% 🖅				
GROWATT Demo>>	Back Register Click to get the server address	Gack Add Plant Plant name Enter the Plant name				
Lusername	* @ Country Choose country	Installation Select the installation date				
Enter username	Lisername Enter username	Plant address				
Password	B Password Enter password	Oter true the rep Automatical ZManual				
Enter password	Repeat Repeat password	USMinorOutlyingislands				
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