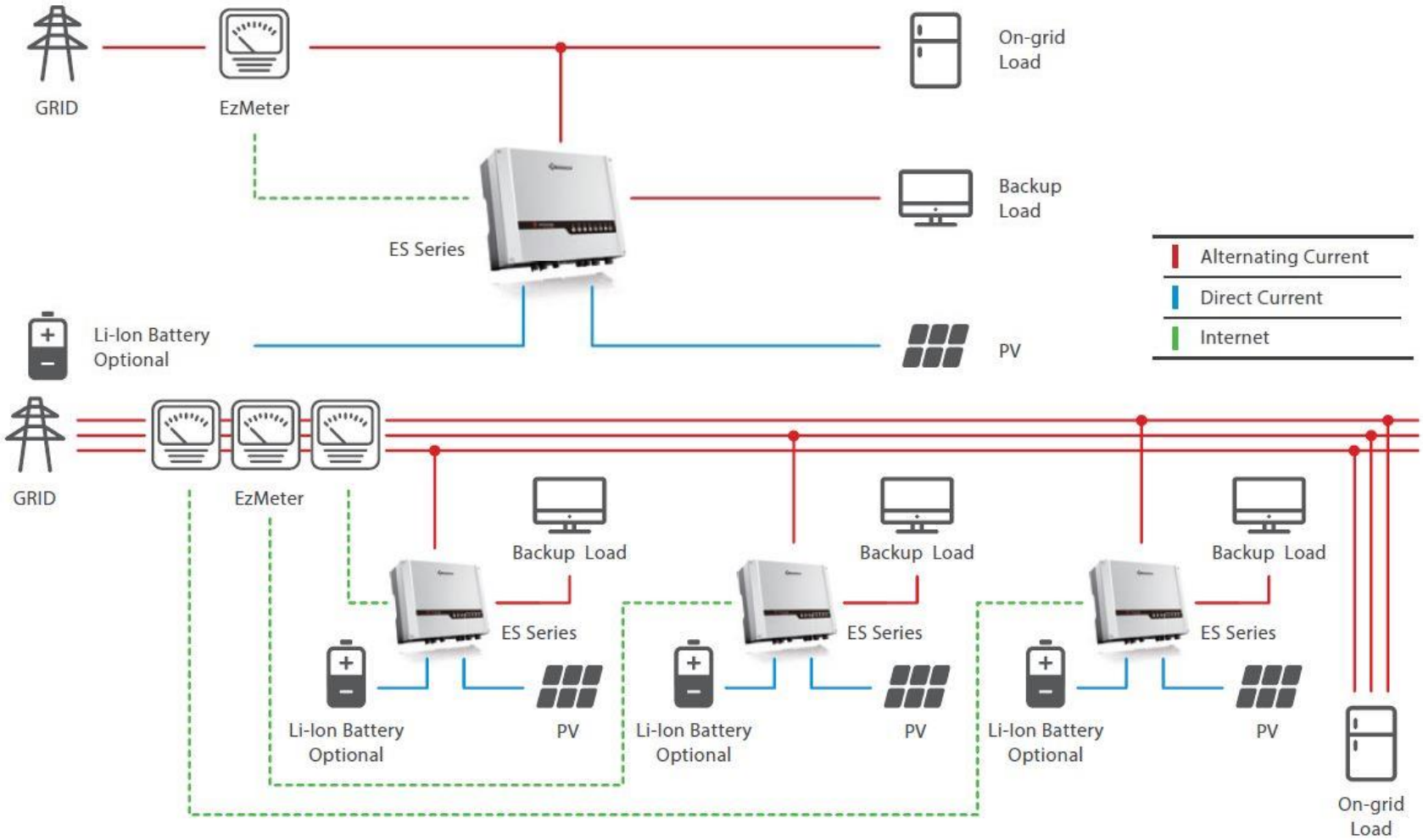
GoodWe

Technical Workshop

Welcome to SegenSolar – Your Solar PV Distributor

Single Phase and Three Phase



Pylontech batteries

- Vertical industry integration ensures more than 6000 cycles at 80% DoD or 4500 cycles at 90% DoD
- Nominal current of 25A for US2000B
- Nominal current of 37A for US3000B
- Modular units allow for flexible design and upgrade options
- Compatible with GoodWe ES and EM
- Simple buckle fixing minimize the installation time and cost
- Safety Cert.TÜV CE UN38.3 TLC

SegenSolar (Pty) Ltd

BYD BUILD YOUR DREAMS

PYLONTECH

GOODWE your solar engine

DATA SHEET



Basic Parameters	US2000B Plus	Phantom-S	US3000
Nominal Voltage（V）	48	48	48
Nominal Capacity (Wh)	2400	2400	3552
Usable Capacity (Wh)	2200	2200	3200
Dimension（mm）	442*410*89	445*428*97.5	442*420*132
Weight（Kg）	24	24	32
Discharge Voltage（V）	45 ~ 53.5	5 ~ 53.5	45~53.5
Charge Voltage（V）	52.5 ~ 53.5	52.5~53.5	52.5~53.5
Charge / Discharge Current（A）	25（Recommended）	25（Recommended）	37 (Recommended)
	50（Max）	50（Max）	74 (Max)
	100（Peak@15s）	100（Peak@15s）	100 (Peak@15s)
Communication Port	RS232，RS485，CAN	RS232，RS485，CAN	RS232，RS485，CAN
Single string quantity(pcs)	8	8	8
Working Temperature/℃	0~50	0~50	0~50
Shelf Temperature/℃	-20~60	-20~60	-20~60
Humidity	5%~85%	5%~85%	5%~85%
Altitude (m)	<2000	<2000	<2000
Design life	10+ Years（25℃/77℉）	10+ Years（25℃/77℉）	10+ Years（25℃/77℉）
Cycle Life	>4500, 25℃	>4500, 25℃	>4500, 25℃
Authentication Level	TÜV / CE / UN38.3	TÜV / CE / UN38.3	TÜV / CE / UN38.3

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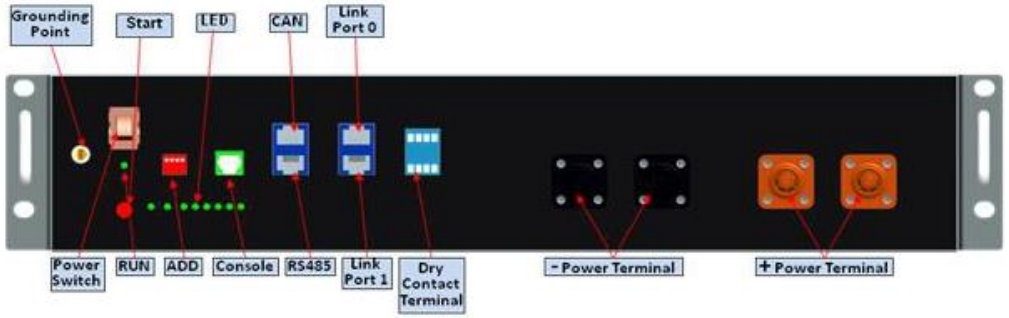
Inverter		Battery							
Brand of Inverter	Type	US2000 / US3000 / Phantom-S / Force-L1	Communication	Cable Supply	Coupling type	Application	Key Features	Firmware Ver.	Installation
Victron Energy	Multi / Quattro 48V (via Venus-device)		CAN	RJ45	DC	On/off-grid*	Activation: Yes; Force charge: Yes	422/V2.15	Wall mounting
Schneider-Electric	XW+ series		CAN	RJ45	DCAC	On/off-grid	Activation: Yes; Force charge: Yes		Vertical
SolaX Power	SK-SU, SK-TL, SK-BMU		CAN/RS232	RJ45	DCAC	On-grid	Activation: PV only; Force charge: Yes		Wall mounting
Goodwe	GW-BP/SBP GW-ES/EM		CAN	RJ45	DCAC	On-grid	Activation: Yes; Force charge: Yes		Wall mounting
Imeon Energy	IMEON 3.6 &9.12		CAN	RJ45	DCAC	On/off-grid	Activation: Yes; Force charge: Yes	V1.7.6.5	Wall mounting
Studer Innotec	Xtender 48V serie VarioString serie VarioTrack 48V serie		CAN	RJ45	DC	On/off-grid	Activation: No; Force charge: Yes	R652	Wall mounting
Selectronic	SPMC in 48V		CAN	RJ45	DC	On/off-grid	Activation: No; Force charge: Yes		Wall mounting
Voltronic	Infinisolar series 48V Axpert series 48V**		RS485(9600)	RJ45	DC	On/off-grid	Activation:Yes Force charge: Yes	V1.00/00.32	Wall mounting
Sofar	ME3000SP, HYD series		RS485(115200)/ CAN	RJ45	AC	On-grid	Activation: Yes; Force charge: Yes	V1.2	Wall mounting
Sermatec	SMT-5K-TL-LV		CAN	RJ45	DCAC	On/off-grid	Activation: Yes; Force charge: Yes		Wall mounting
Zucchetti Centro Sistemi	Azzurro 3000SP; Azzurro HYD3000/6000-ES		RS485(115200)/ CAN	RJ45	AC	On-grid	Activation: Yes; Force charge: Yes	V1.2	Wall mounting
Solis	RHI-3K~5K-48ES		CAN	RJ45	DC	On/off-grid	Activation: PV only; Force charge: Yes	90009	Wall mounting
Redback	SH5000		RS485(115200)	RJ45	DCAC	On-grid	Activation: PV only; Force charge: No		Vertical
Alpha & Outback Energy	SPC III 5000-48		RS485(9600)	RJ45	DC	On/off-grid	Activation:Yes Force charge: Yes	V1.00/00.32	Wall mounting
Lux Power	LXP Hybrid/ACS series		CAN	RJ45	DCAC	On-grid	Activation: Yes; Force charge: Yes	AA1.0	Wall mounting
Sungrow	SH5K		CAN	Terminal	DC	On-grid	Activation: 30mins; Force charge: Yes	V13	Wall mounting
Morningstar	TriStar MPPT in 48V TriStar MPPT 600V in 48V TriStar PWM TS-45 in 48V		N/A	N/A	DC	On/off-grid	Activation: PV only; Force charge: No	v32b	Wall mounting
Delios	DLS/C series DLS AC series		CAN	RJ45	DCAC	On/off-grid	Activation: No; Force charge: Yes	A 1.30; B 1.18; C1.27	Wall mounting
MLT	Oasis 448, 648		N/A	N/A	AC	Off-grid	Activation: No; Force charge: Yes	V2.19	Wall mounting
Steca	Solarix PLI 5000-48		N/A	N/A	DC	Off-grid	Activation: Manual; Force charge: No		Wall mounting
SAJ	Sunfree series		RS485(9600)	RJ45	DCAC	On/off-grid	Activation: Yes; Force charge: Yes	V2.031/V1.037/V1.037	Wall mounting
SolarMax	ES series AC series		CAN	RJ45	DCAC	On/off-grid	Activation: No; Force charge: Yes	A 1.30; B 1.18; C1.27	Wall mounting
Growatt	SPH6000		CAN	RJ45	DCAC	On/off-grid	Activation: No; Force charge: Yes	RA1.0	Wall mounting
Axioma Energy	ISPWM 5000 ISMPPT BF 3000 - 5000 ISGRID (BF) 3000 - 5000		N/A	N/A	DC	On/off-grid	Activation:No Force charge: No		Wall mounting
Kehua	SPH5000-BL		CAN	RJ45	DCAC	On-grid	Activation: Yes; Force charge: Yes	V1.00.013	Wall mounting
GMDE	SolDate 3700TL+BM024		RS485(9600)	RJ45	DCAC	On-grid	Activation: No; Force charge: Yes	V2.0.1	Wall mounting
Dowell	iPower		RS485(9600)/CAN	Terminal	DCAC	On-grid	Activation: PV only; Force charge: Yes	V3.03	Wall mounting

If the scenario requires multiple Pylon battery modules

Internal communication of the Pylon batteries is limited to 8 modules, Pylon can manage battery information for only 8 modules in parallel per inverter with the address allocated automatically.

For larger banks, a Pylontech LV-Hub can be used to connect 5 banks of 8 battereis

Module Layout



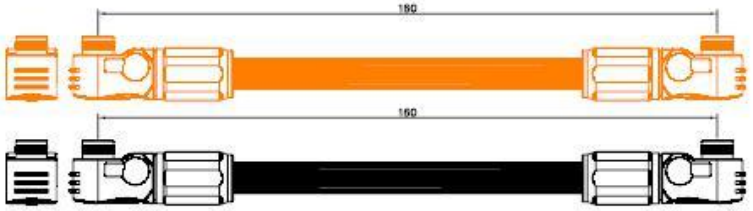
Front Panel

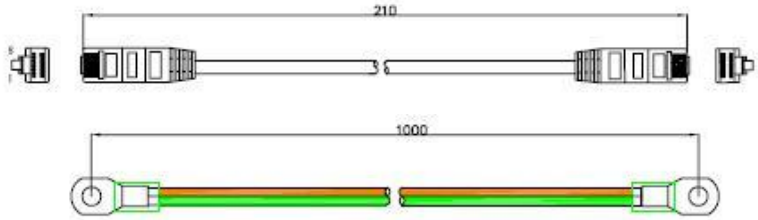
Power Switch

Link Ports

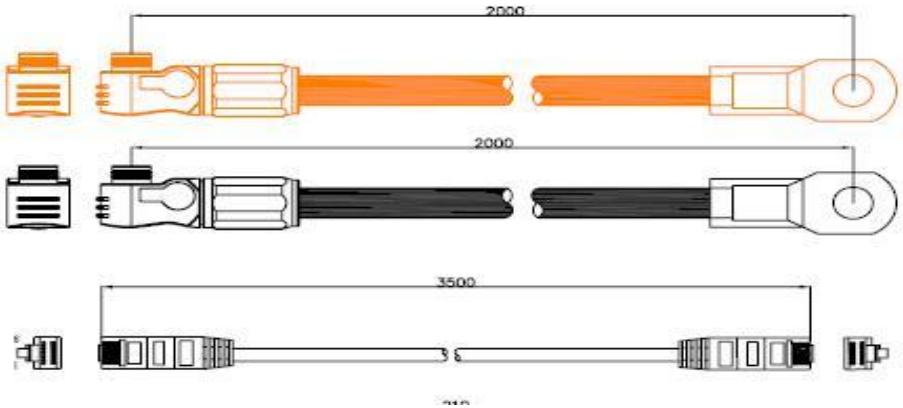
Pylon Cables

- **Cable accessories included with the battery**
  Two power cables, one communication cable and one earth cable



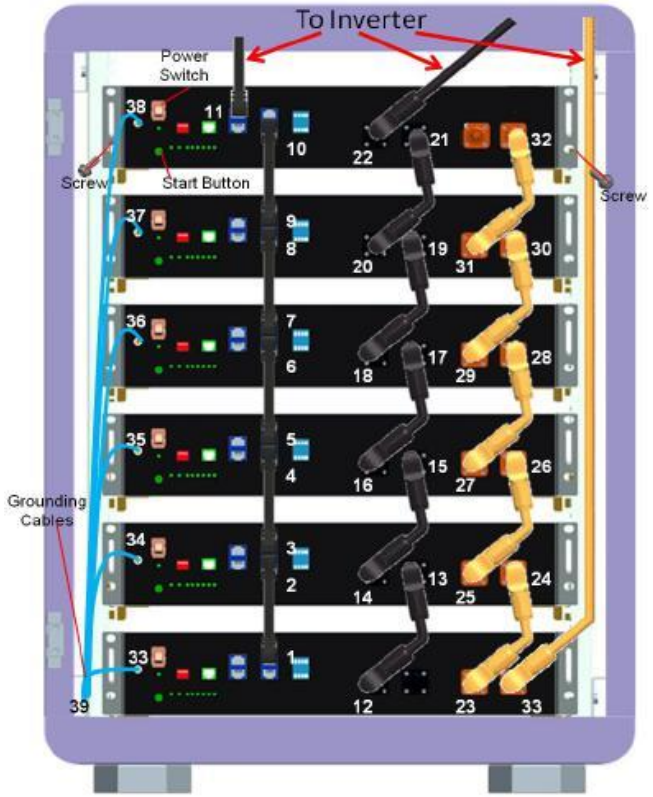


- **Cable Pack, required accessory (Purchased separately)**
  Two long power cables and one communication cable



- **NOTE**
  The Cable pack must be purchased separately and is not included with the battery.
  The Power cables is rated for a current rating of 120A.
  a Maximum of 5 battery modules can be connected with one cable pack

Cabinet / Brackets



BYD Batteries

- Safe Battery Chemistry – LiFePO4 (Lithium iron phosphate) the thermal runaway temperature is over 480°C
- Railway and Automotive Standard Battery – 6+ years track record in the EV market and knowledge in ESS
- High Power Output – 1C Nominal and 2C Peak
- Easy Installation and Uninterruptible Maintenance – Complete modular design.
- Flexible Extension Life Time – Can expand storage at any time
- Compatible with GoodWe ES and EM
- 10 Year Warranty – Covers the battery for 1 full cycle per day for the duration of the warranty

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DATA SHEET

Model	B-Box Pro 2.5	B-Box Pro 5.0	B-Box Pro 7.5	B-Box Pro 10.0	B-Box Pro 13.8
Battery Type	$LiFePO_4$				
Battery Module	1 module	B-Plus 2.5 (2.56 kWh) 2 modules	3 modules	4 modules	B-Plus 13.8 (13.8 kWh)
Usable Energy[1] [kWh]	2.56	5.12	7.68	10.24	13.8
Max Output Power [kW]	2.56	5.12	7.68	10.24	12.8
Peak Output Power [kW]	5.12, 30s	10.24, 30s	15.36, 30s	20.48, 30s	13.3, 60s
Round-Trip Efficiency	≥95.3% (Under test condition [1])				
Nominal Voltage [V]	51.2				
Operating Voltage Range [V]	43.2~56.4				
Communication	CAN / RS485				
Dimension [W×H×D,mm]	600×883×510				650×800×550
Net Weight [kg]	79	113	147	181	175
Enclosure Protection Rating	IP20				
Warranty	10 years				
Ambient Temperature Range[2] [℃]	-10 ~ +50				
Certification & Safety Standard	TUV / CE / UN38.3 Sicherheitsleitfaden Li-Ionen-Hausspeicher				CE / RCM / UN38.3
Scalability	Max. 8 B-Box Pro 10.0 systems in parallel				Max. 32 systems in parallel
Compatible Inverters	SMA / GOODWE / SOLAX / Victron, more brands to be announced				

[1]Test conditions: 100% DOD, 0.5C charge & discharge @+25℃
[2] -10℃~10℃ will be derating
*System Usable Energy may be variant with differnet inverter brands

Inverter Compatibility List

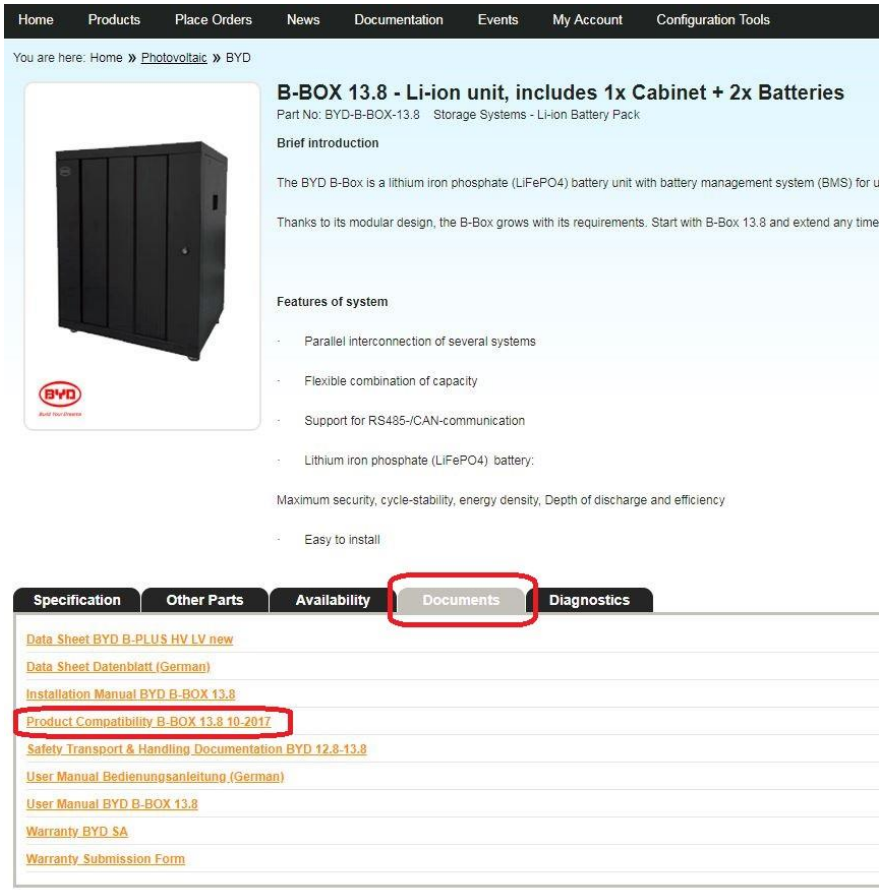
Inverter Firmware version: minimum required firmware version for ARM is 03.
B-Box firmware version: minimum required firmware version for BMU is V4-10.

1 Phase on Grid		
Inverter Type	B-Plus 2.5	Cabinet

[1] Shall bypass main circuit breaker when the system is off grid application.

Minimum Configuration list of B-Box series products

GW3648D-ES	≥1[2]	≥1
GW5048D-ES	≥1[2]	≥1
1 Phase off Grid		
Inverter Type	B-Plus 2.5	Cabinet
GW3648D-ES	≥2	≥1
GW5048D-ES	≥2	≥1



Connecting multiple BYD Modules

B-Box 2.5, 5, 7.5, 10

- The BYD BMU can communicate with up to 32 battery modules.
- Only two BYD B-Box battery modules can be wall mounted using the Wall Mount Bracket
- If more than 3 modules is required the B-Box 10 cabinet must be used and up to maximum of 8 B-Box 10 cabinets can be connected in parallel for a maximum of 80kWh

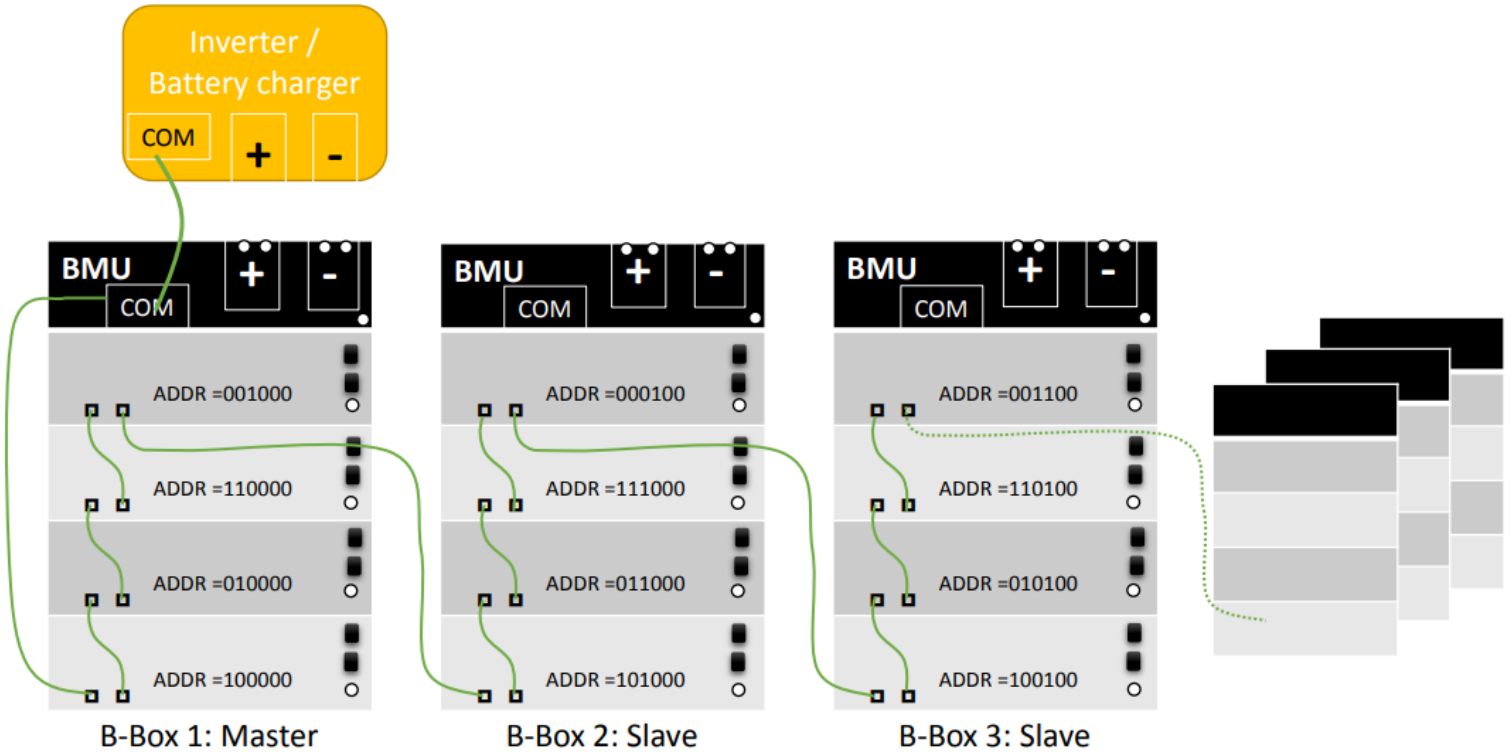
B-Box 13.8

- The B-Box 13.8 can scale up to 32 units in parallel for a total of 441kWh of storage

The Cabinets are fitted with a BMU and bus bars, the internal bus bars are intended for paralleling the modules installed inside the cabinet.

Part A – Installation Training

Parallel Communication



7.2 Battery address setting list (from 1~32 batteries):

Battery No.	Address	Battery No.	Address
1	100000	17	100010
2	010000	18	010010
3	110000	19	110010
4	001000	20	001010
5	101000	21	101010
6	011000	22	011010
7	111000	23	111010
8	000100	24	000110
9	100100	25	100110
10	010100	26	010110
11	110100	27	110110
12	001100	28	001110
13	101100	29	101110
14	011100	30	011110
15	111100	31	111110
16	000010	32	000001

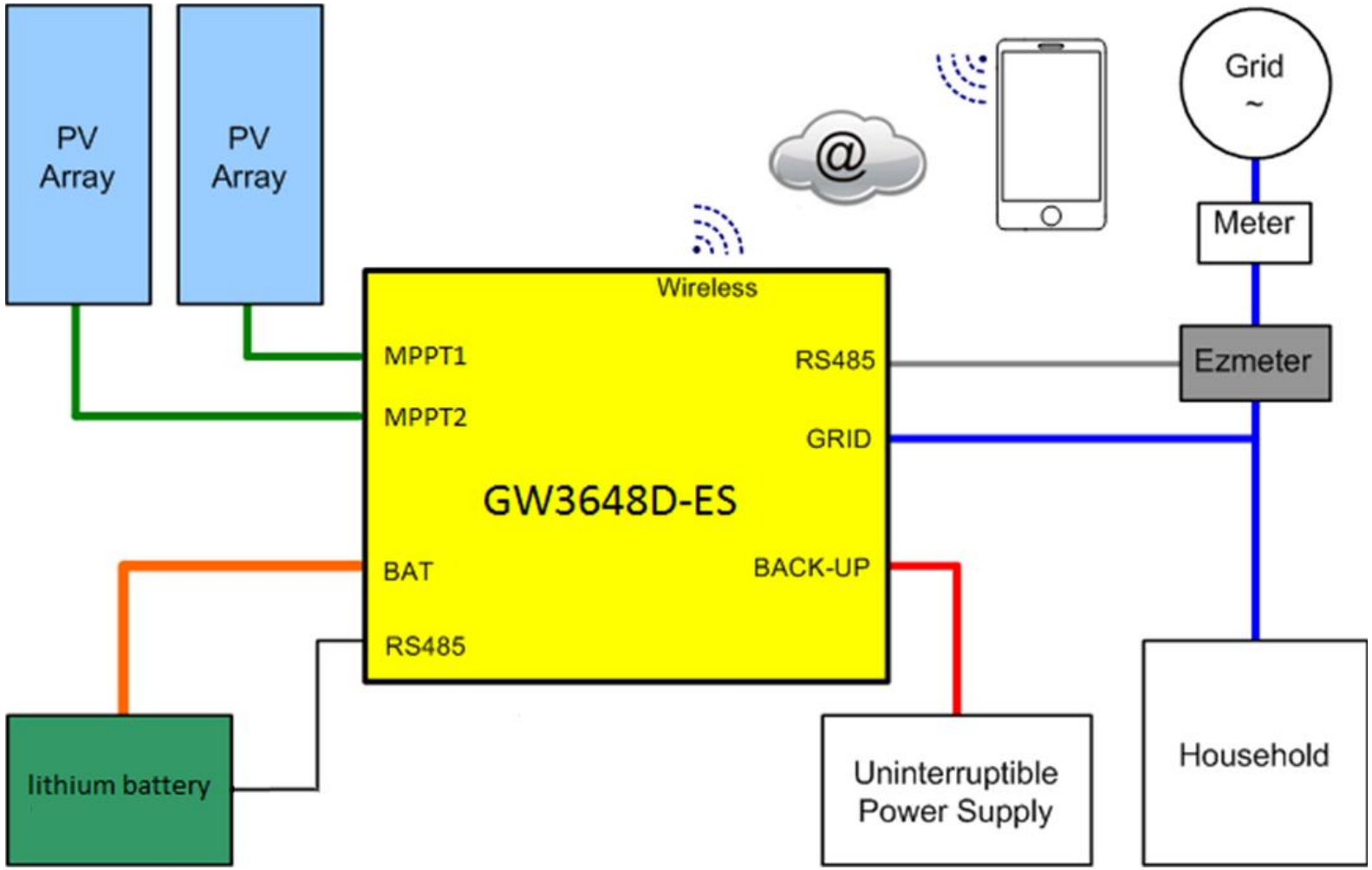
Installation, commissioning and updating firmware

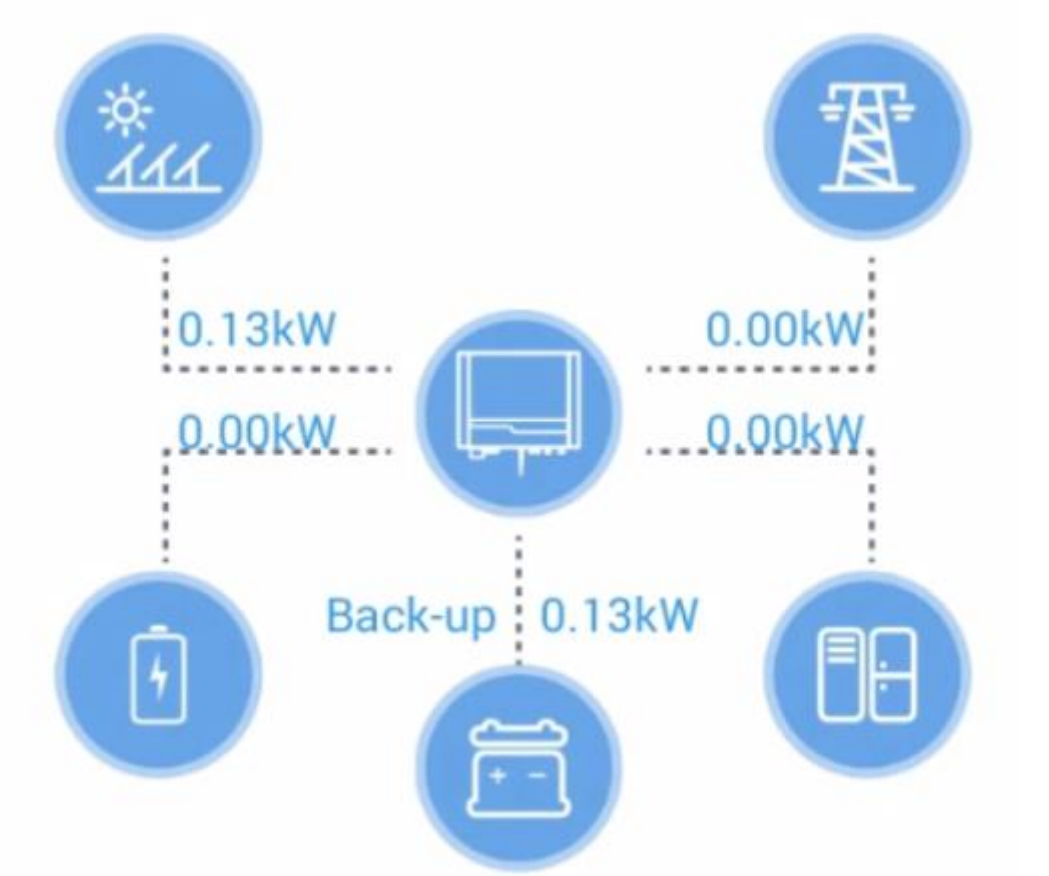
Training Outline

- Hybrid inverter overview & main components
- Six work modes (scenarios)
- Firmware Upgrade
- Commission the inverter
- Choosing battery type
- Wiring
- Fault finding
- System monitoring
- Pylon Application Note and Documents
- Warranty

Hybrid inverter Overview

Hybrid Block Diagram

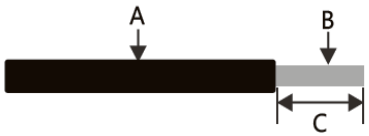



0.13kW
0.00kW
0.00kW
0.00kW
Back-up
0.13kW

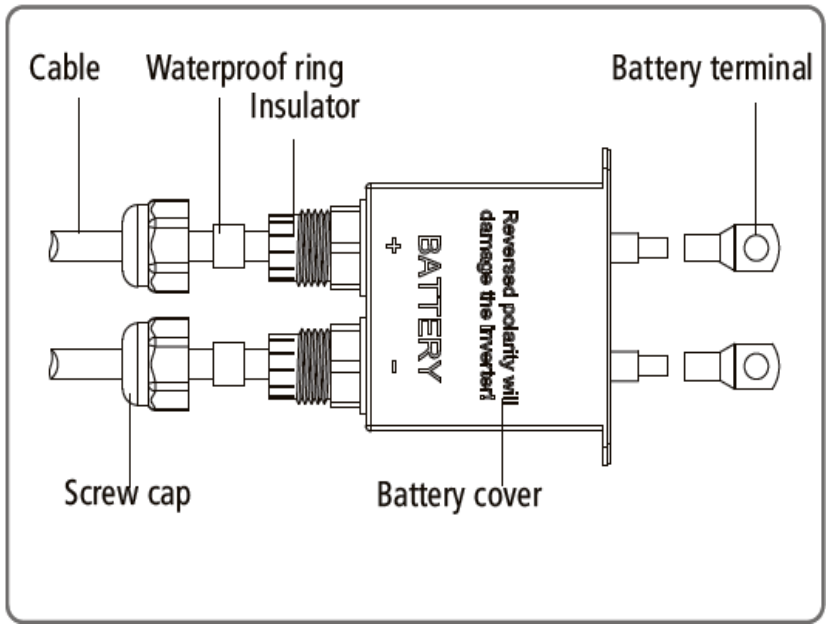
Before Installation

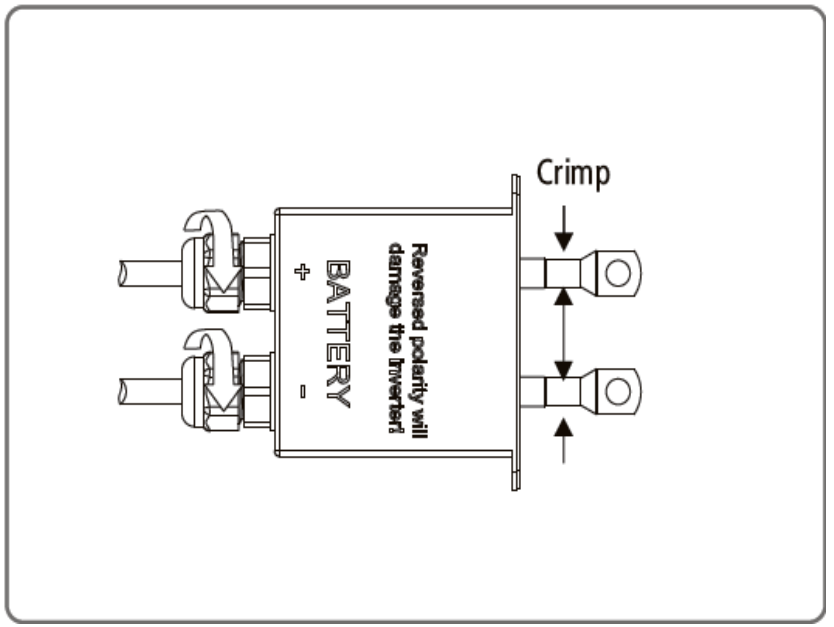
- After unpacking, please check the product and packing list, if the product is damaged or there is missing components, please contact Segen.
- Before installation, ensure that the battery is turned off.
- Double check the polarity, do not swap around the positive and negative leads.
- Do not connect the battery directly to AC.
- The embedded BMS in the battery is designed for 48VDC, please DO NOT connect batteries in series.
- Battery system must be well grounded with a resistance less than 1Ω.
- The battery can only be used with inverters approved by pylon.

Battery Connection



Grade	Description	Value
A	O.D.	10~12mm
B	Conductor Material Sectional Area	20~25mm^2
C	Bare Wire Length	10mm around

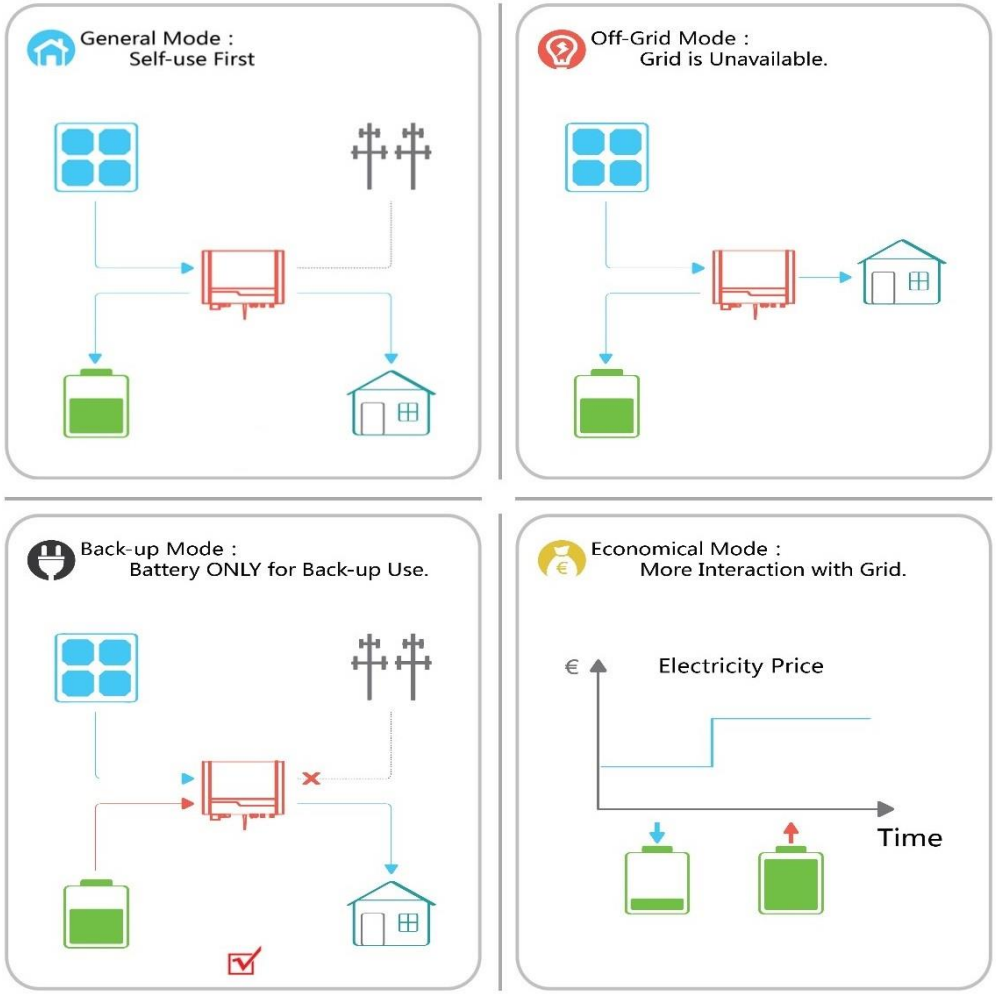


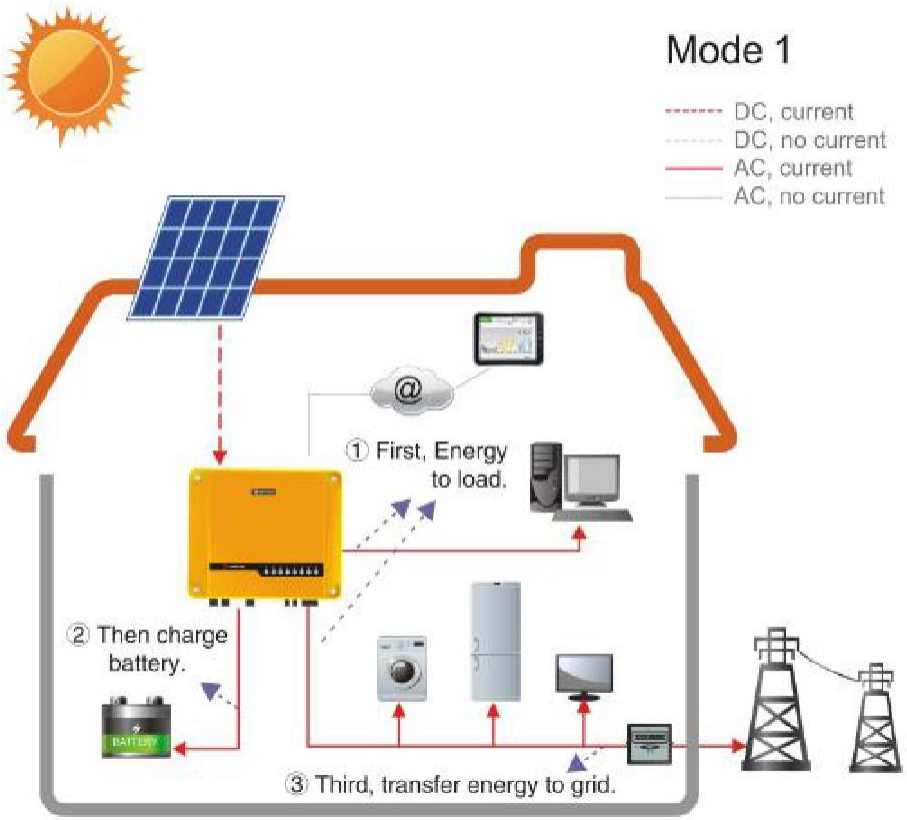


EzMeter

- Standard accessory with the inverter.
- Controls energy exported to the grid and the work modes of the Energy Storage system.
- Communicates with the ES inverter via a RS485 cable.
- Meter reading NOT used, treat this device as a Black Box.
- LED on the bottom left blinks to indicate the system is running
- Equipped with CT clamp for current measurement

Six Work Modes

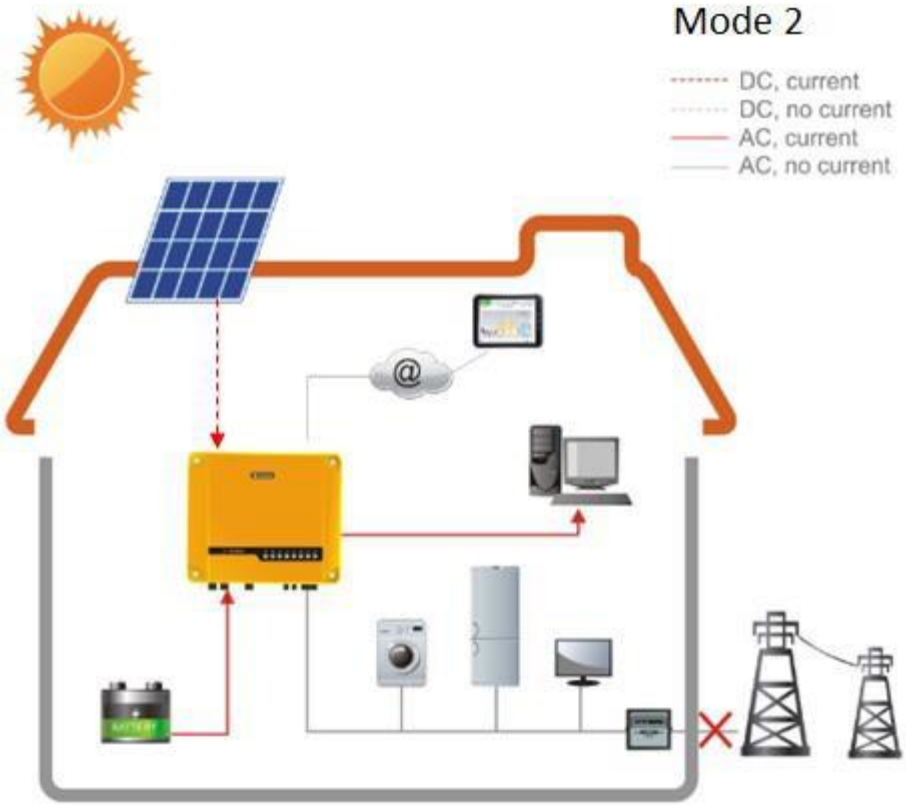




Mode 1

Condition: PV ON; Peak Generation

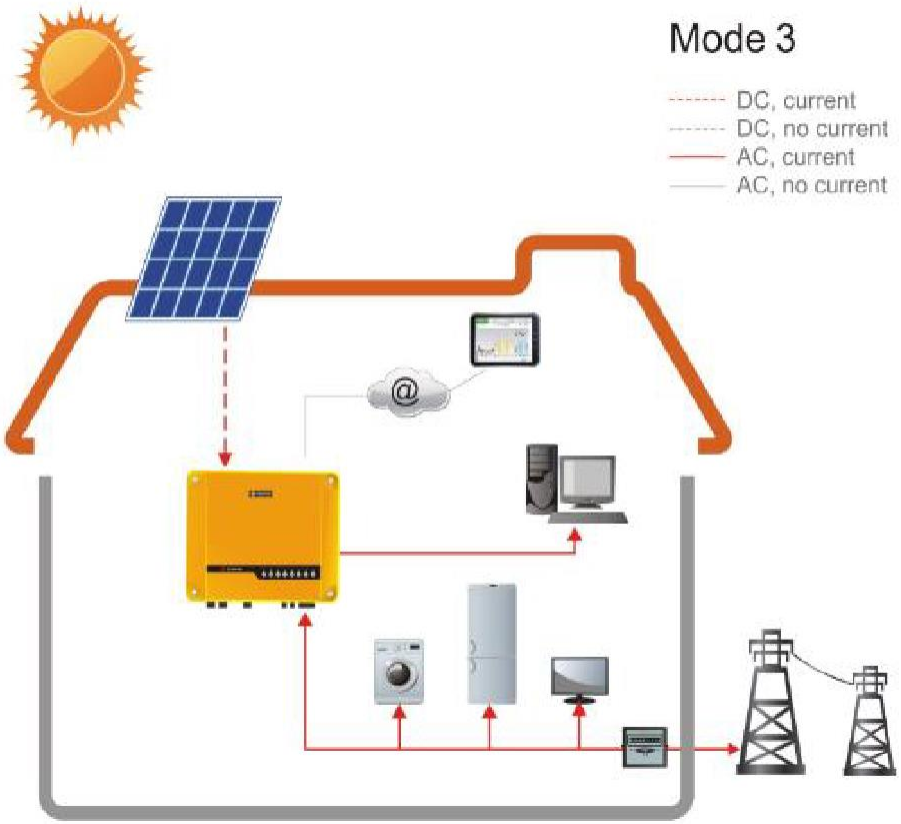
Energy produced by the PV system is for self-consumption optimization. Solar energy will firstly support the load, secondly it will charge the battery and finally export to the grid or draw from the grid, if the load demands more energy.



Mode 2

Condition: Day time, grid fails

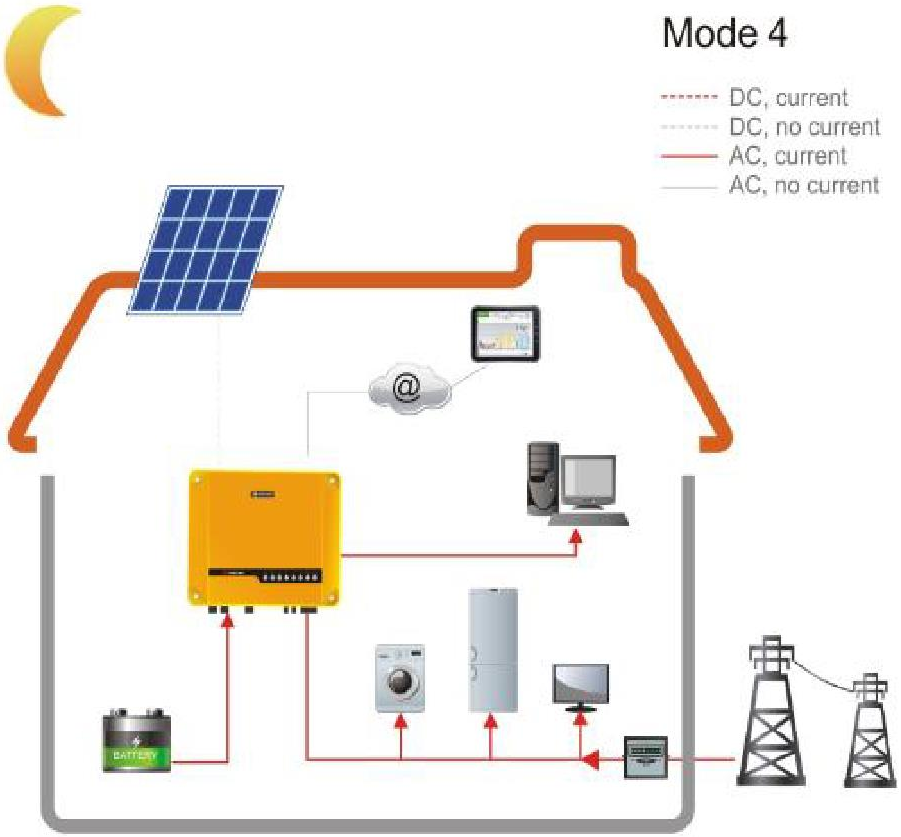
The system automatically switches to back-up mode. Solar energy will first support the load connected to the back-up side. If more energy is generated, it will be used to charge the battery.



Mode 3

Condition: System without Battery

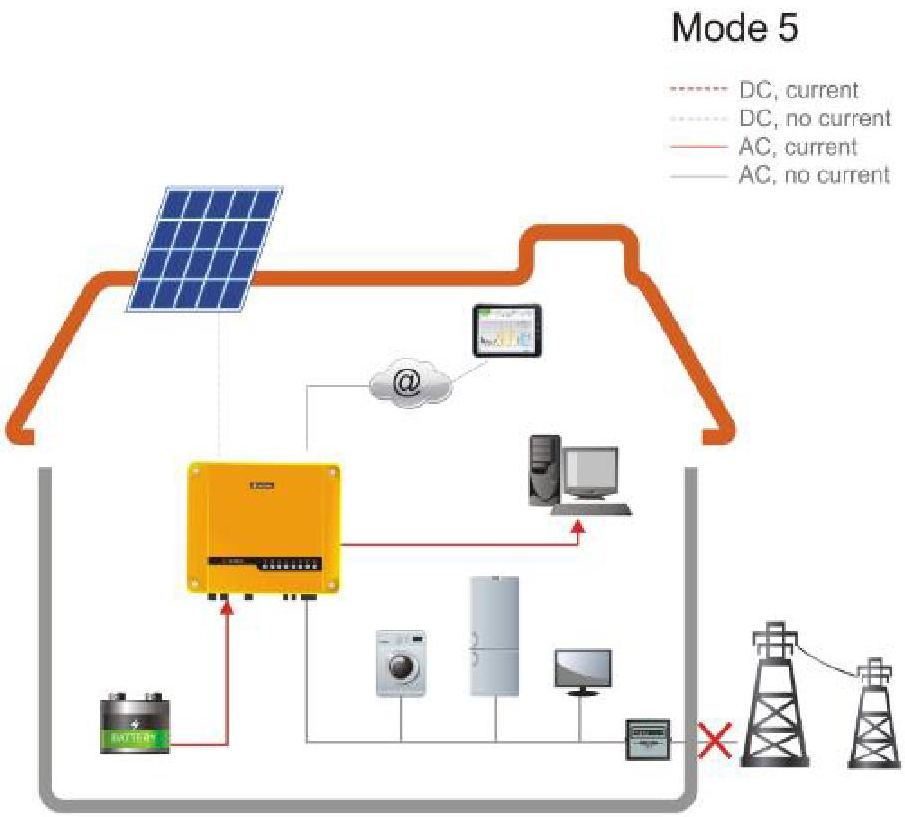
Solar energy will first support the load, excess power will be exported to the grid. If generation level is too low, power will be imported from the grid.



Mode 4

Condition: Night-time

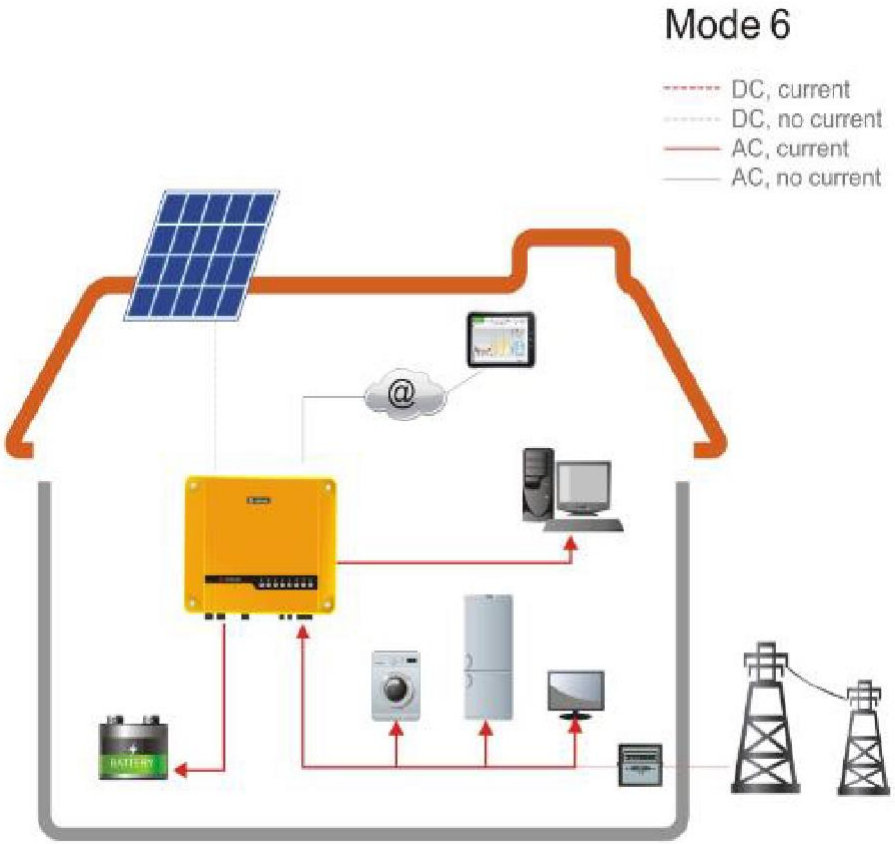
ES inverter will discharge the battery to support the load. If the battery stored energy is not enough, the rest of the power will be supplied from the grid.



Mode 5

Condition: Night time, grid fails

Once the grid fails, the system automatically switches to back-up mode. ES inverter will discharge the battery to support the load.

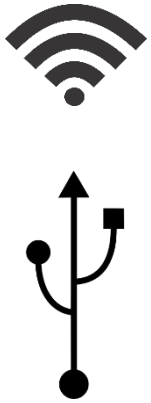


Mode 6

Condition: Use as UPS

If the customer wants to use the system as UPS, the inverter can also be set to charge the battery by the grid.

Firmware Upgrade



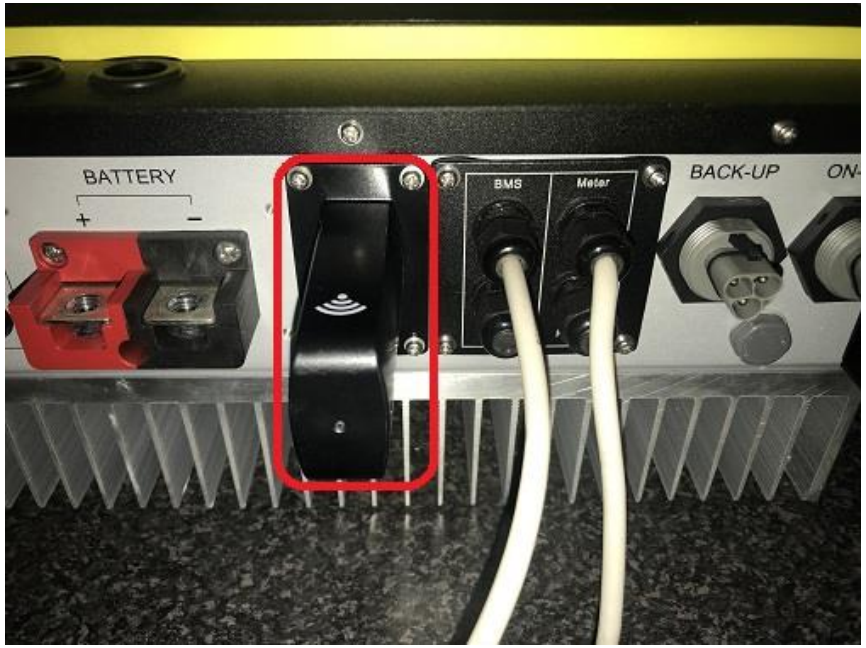
Updating Inverter Firmware

USB Cable

Type A male to Type A male cable

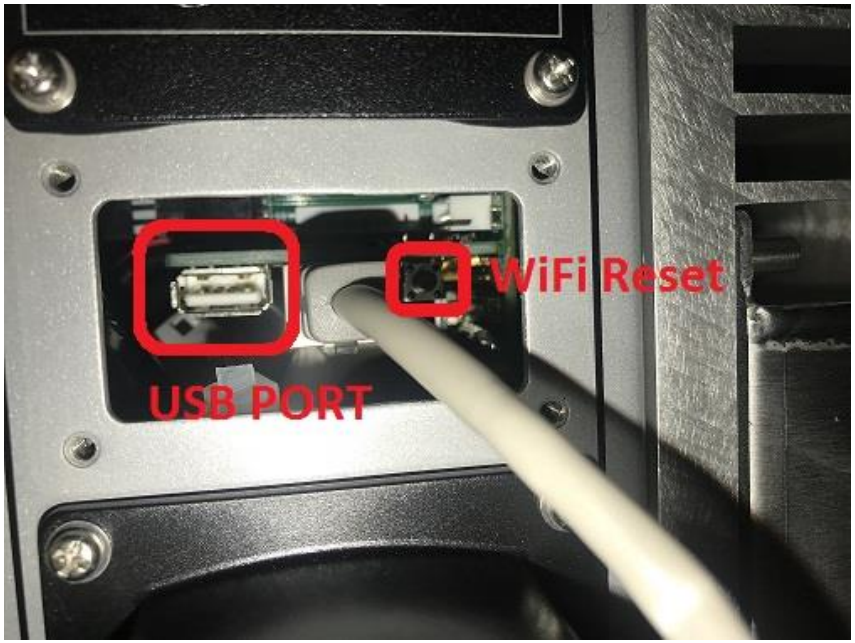
Step 1: Remove the Meter Cover / Antenna block

GoodWe ES



GoodWe EM

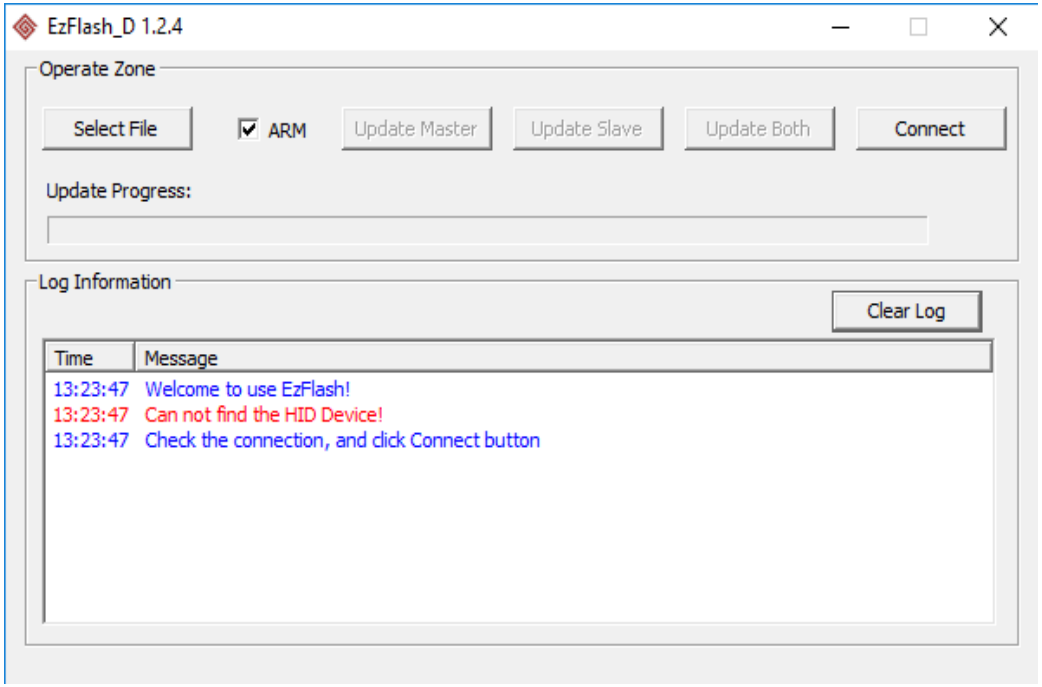
Step 2: Plug the USB cable into the USB port



GoodWe ES

GoodWe EM

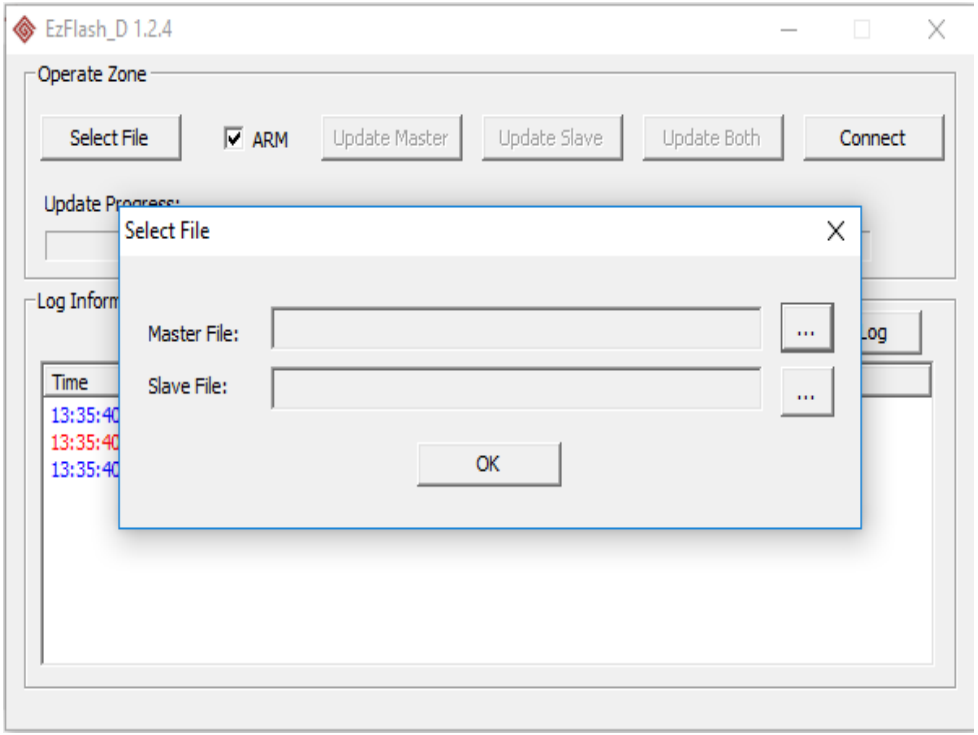
Step 3: Main update



Update tool

1. Open the EzFlash application
2. Tick the box marked ARM
3. Click connect to test inverter connection

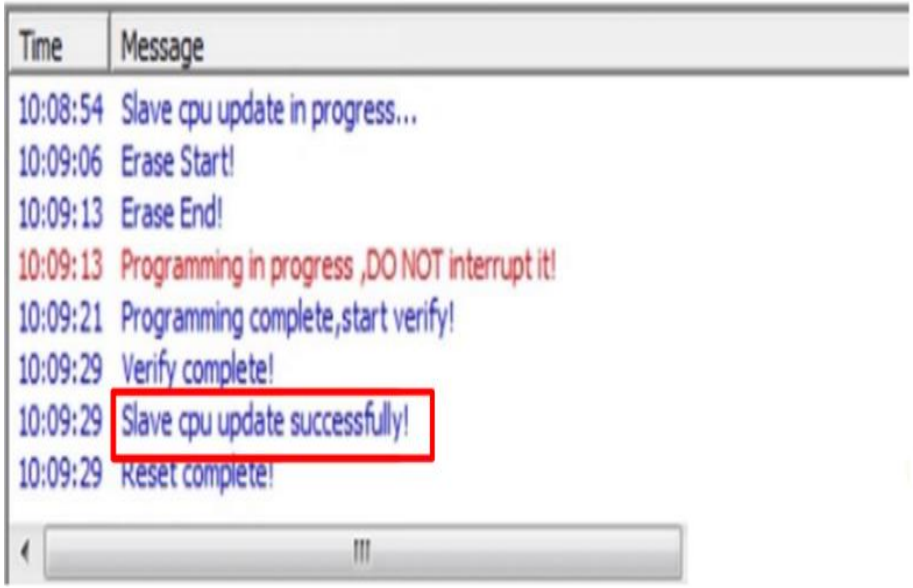
Step 3: Main update



Update tool

1. Select the slave and master files.
2. Click the update both button

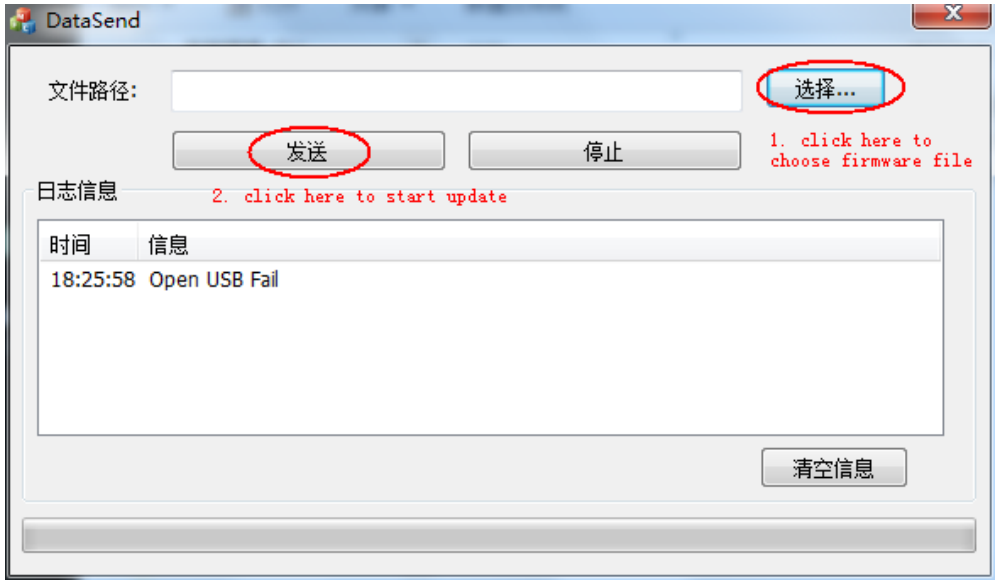
Step 3: Main update



Update tool

1. Wait for update to complete, it takes about 5 min.

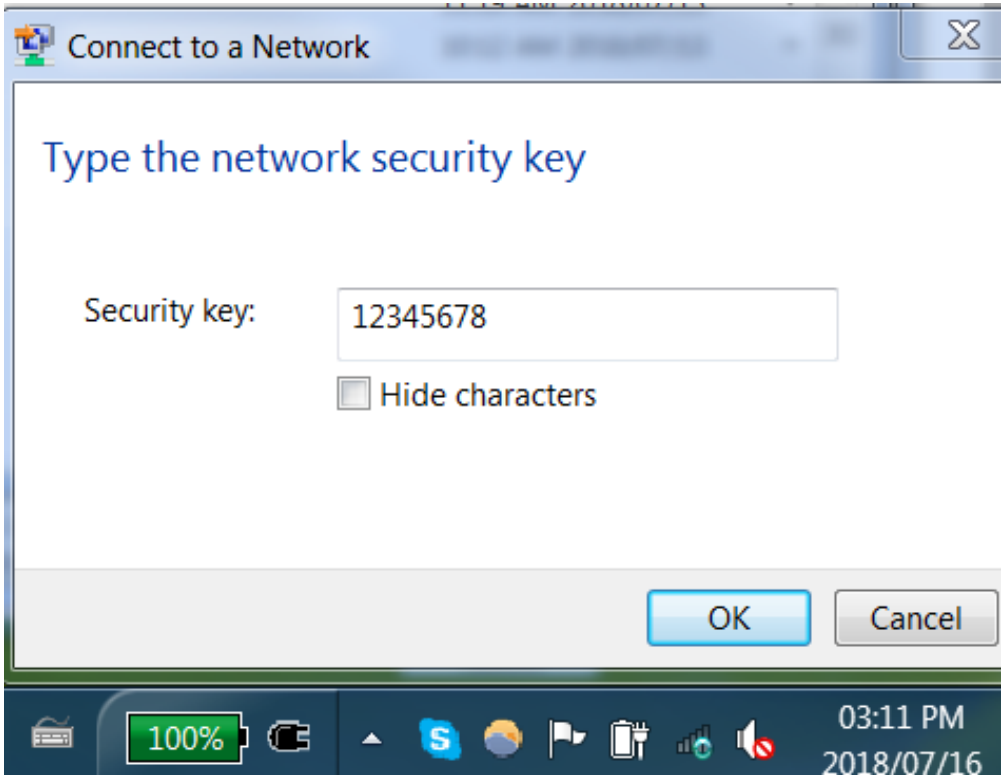
Step 4: Open the software tool



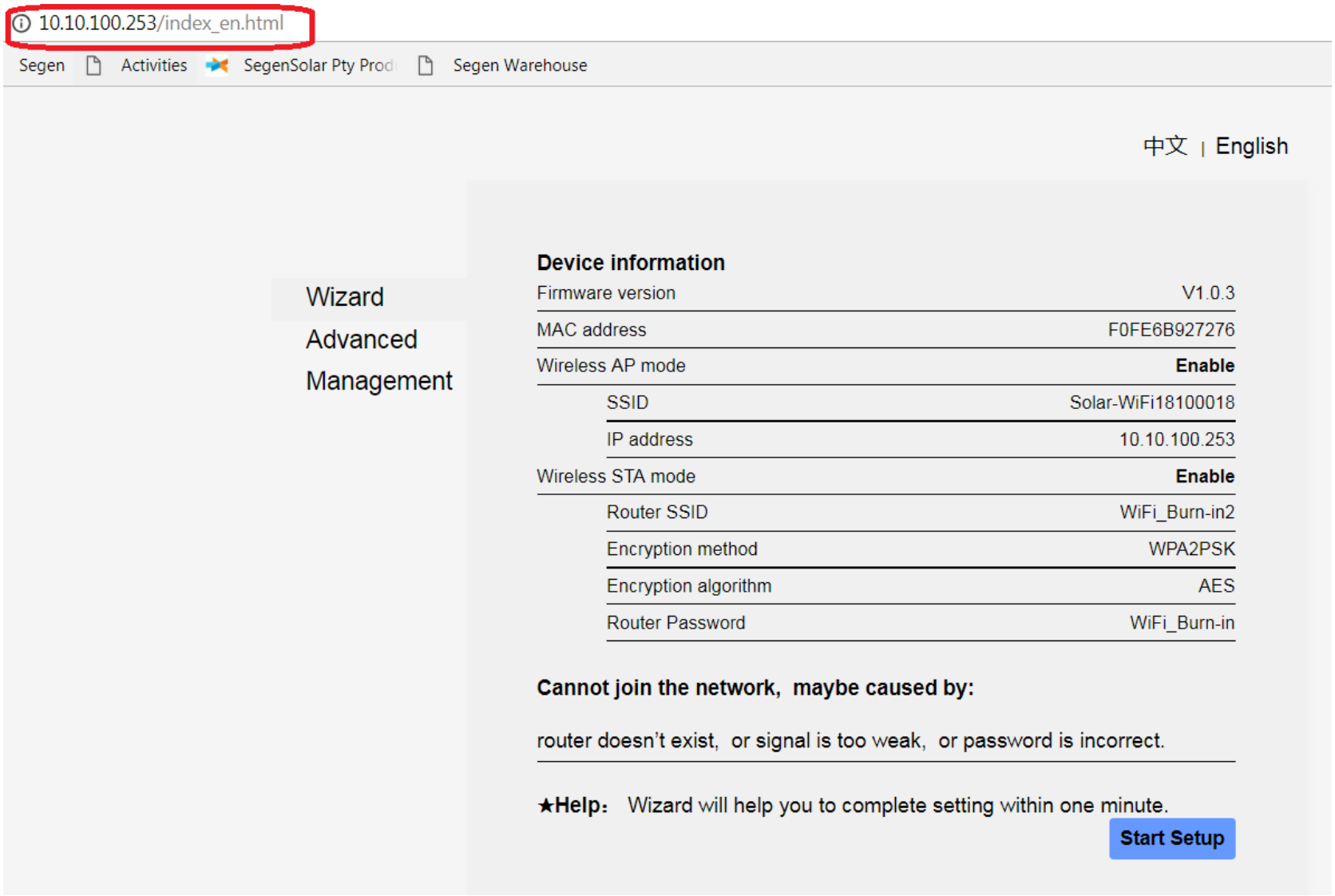
Update tool

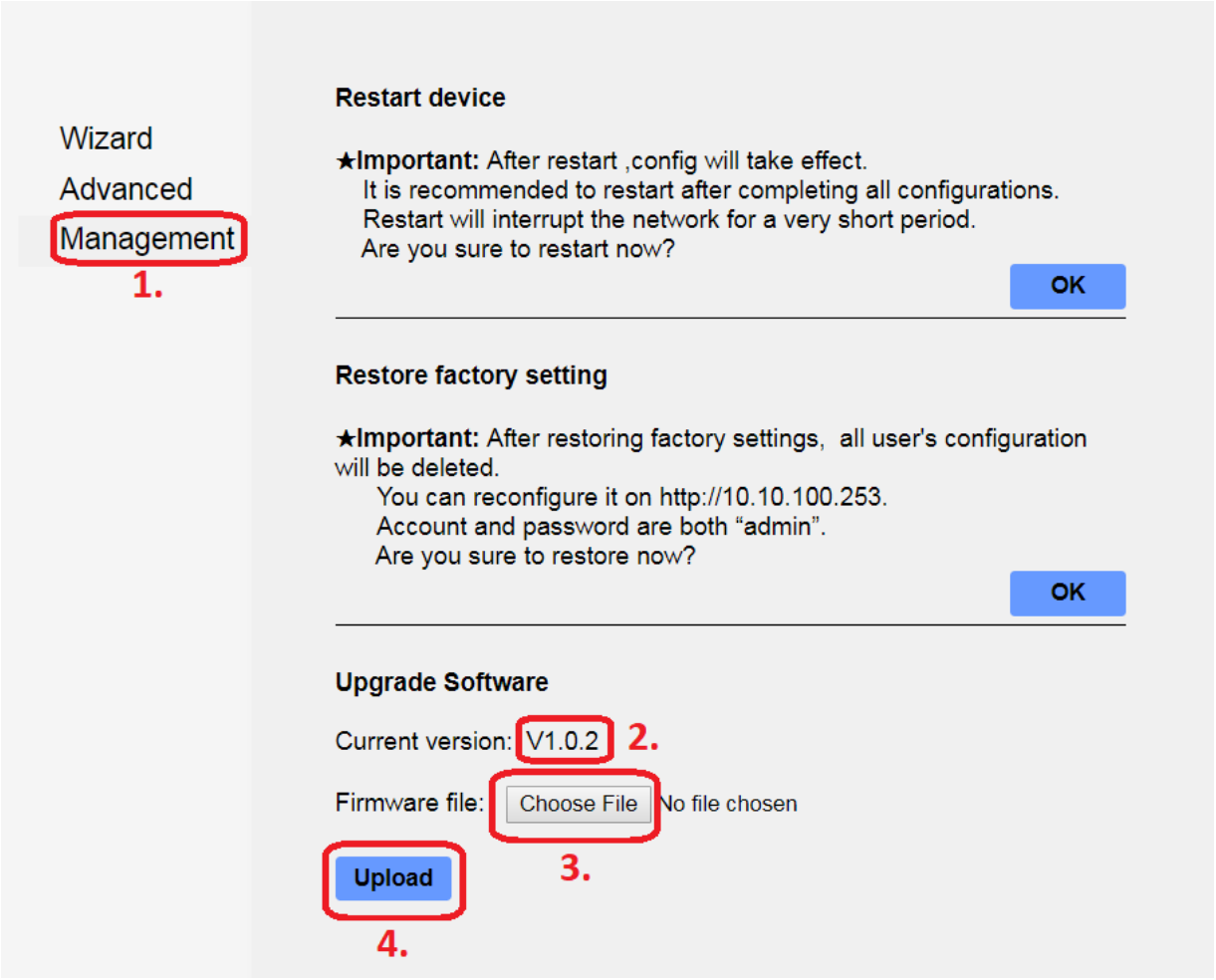
1. Open the email and save the DataSend tool and the .bin file to your computer
2. Open the DataSend tool.
3. Click on the first button indicated and select the .bin file saved on your computer.
4. Click on the second button indicated and wait for the application to display that its completed.

Updating WiFi Firmware



Connect to SolarWiFi and enter the security key


10.10.100.253/index_en.html
Segen
Activities
SegenSolar Pty Prod
Segen Warehouse
中文 | English
Wizard
Advanced
Management
Device information
Firmware version V1.0.3
MAC address F0FE6B927276
Wireless AP mode Enable
SSID Solar-WiFi18100018
IP address 10.10.100.253
Wireless STA mode Enable
Router SSID WiFi_Burn-in2
Encryption method WPA2PSK
Encryption algorithm AES
Router Password WiFi_Burn-in
Cannot join the network, maybe caused by:
router doesn't exist, or signal is too weak, or password is incorrect.
★Help: Wizard will help you to complete setting within one minute.
Start Setup



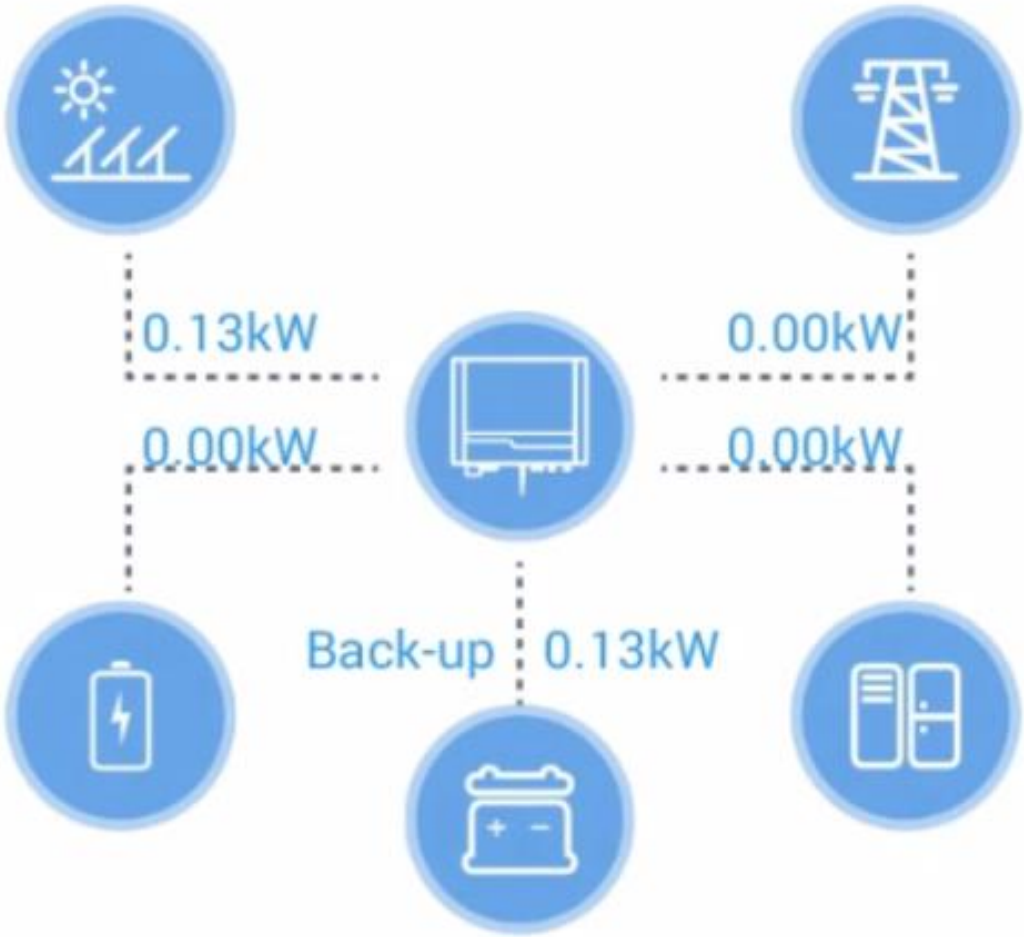
Browser UI

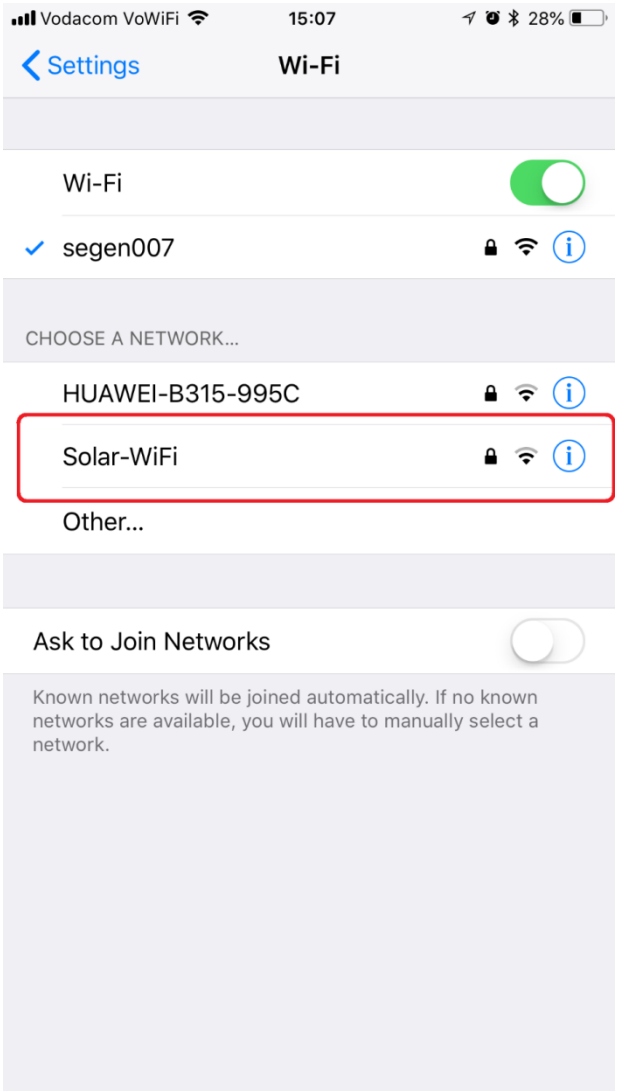
Enter IP address into the browser 10.10.100.253

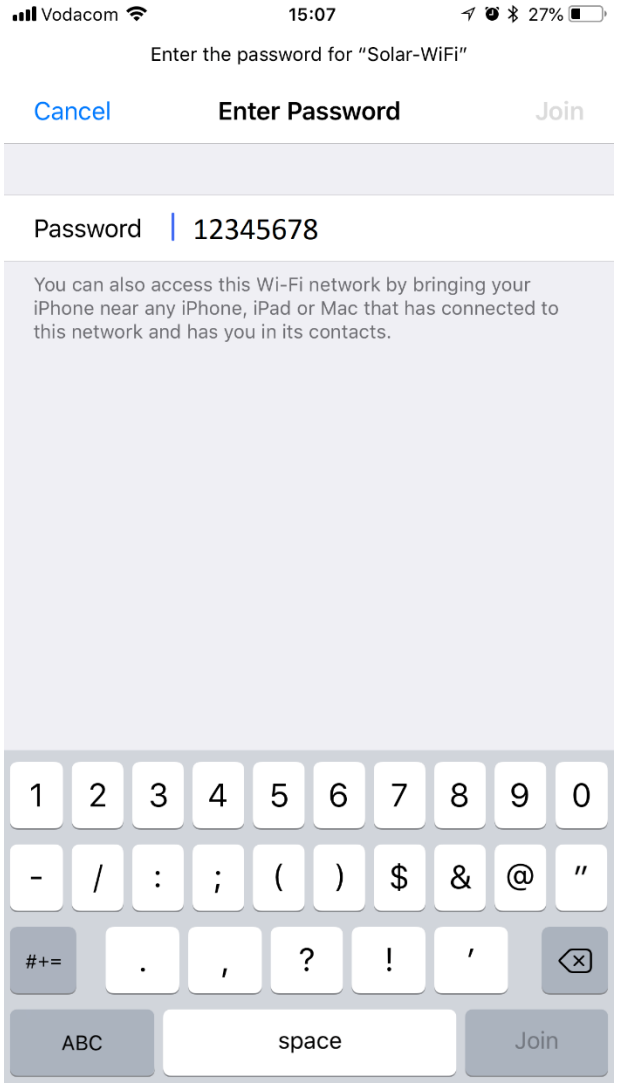
1. Click on Management
2. Check the current version
3. Select the firmware file
4. Click on upload and wait for the process to complete

GoodWe EM WiFi Reset

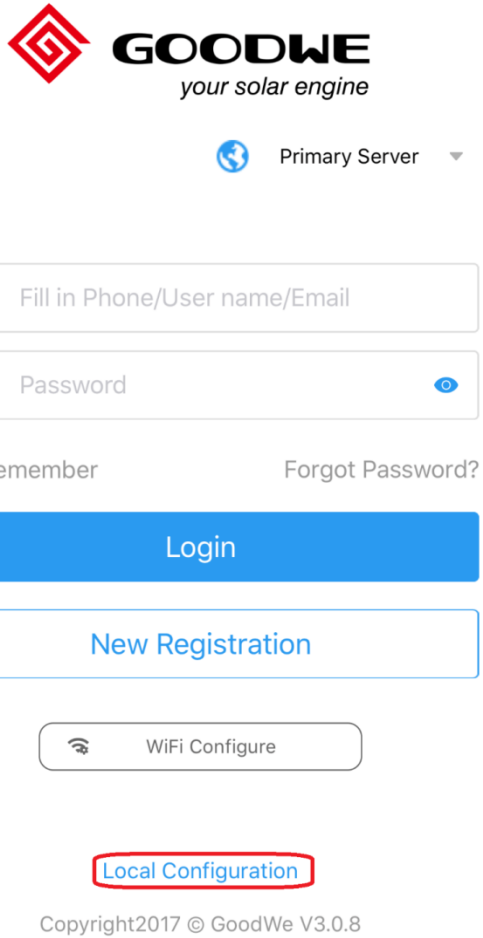
Commission the inverter

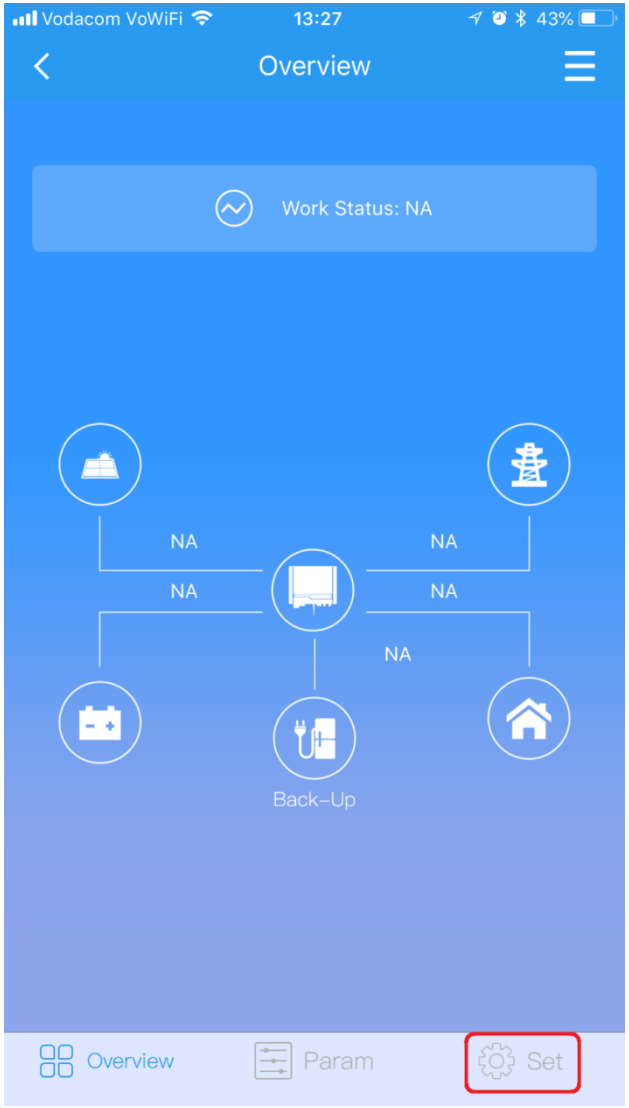


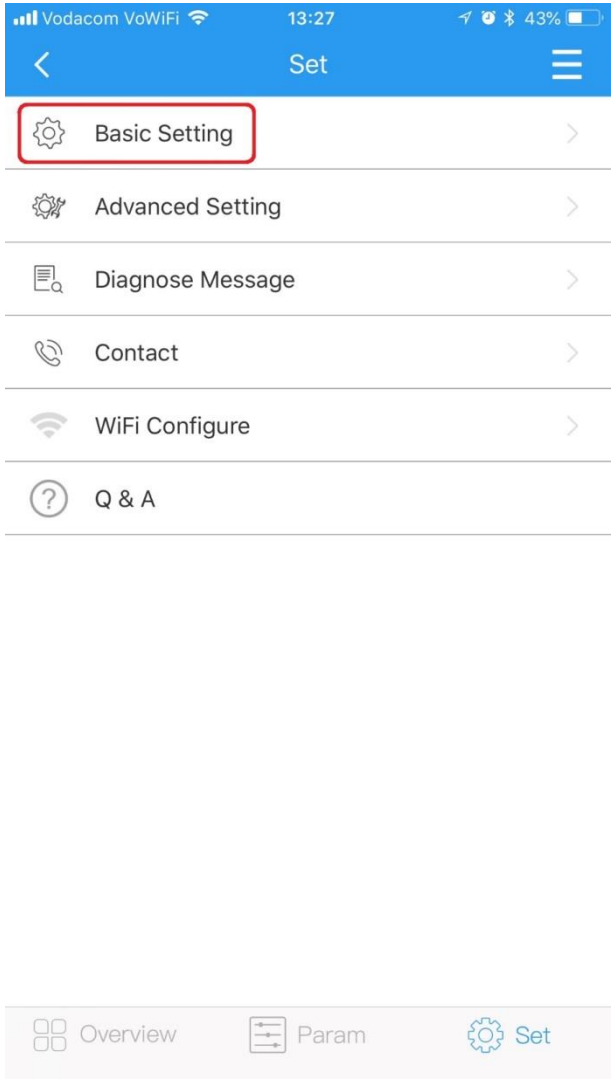

Vodacom VoWiFi
15:07
28%
Settings
Wi-Fi
Wi-Fi
segen007
CHOOSE A NETWORK...
HUAWEI-B315-995C
Solar-WiFi
Other...
Ask to Join Networks
Known networks will be joined automatically. If no known networks are available, you will have to manually select a network.

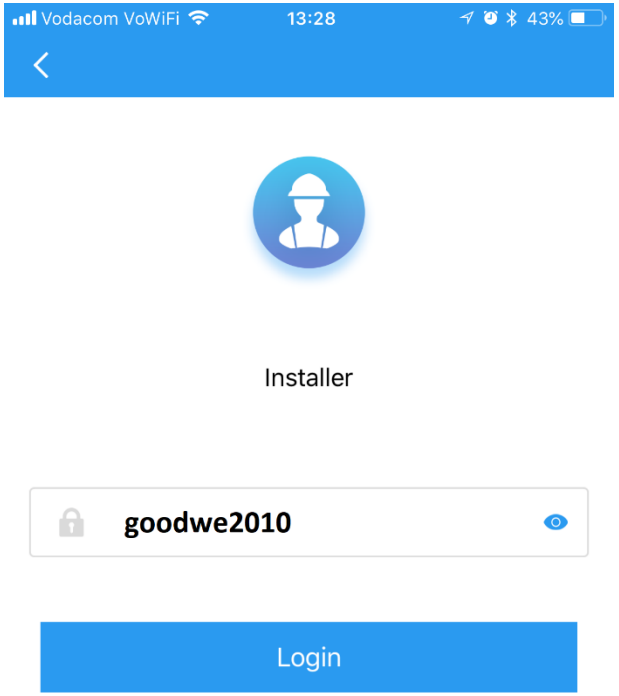

Vodacom
15:07
27%
Enter the password for "Solar-WiFi"
Cancel
Enter Password
Join
Password
12345678
You can also access this Wi-Fi network by bringing your iPhone near any iPhone, iPad or Mac that has connected to this network and has you in its contacts.
1 2 3 4 5 6 7 8 9 0
- / : ; ( ) $ & @ "
#+= . , ? ! '
ABC
space
Join

PVmaster APP

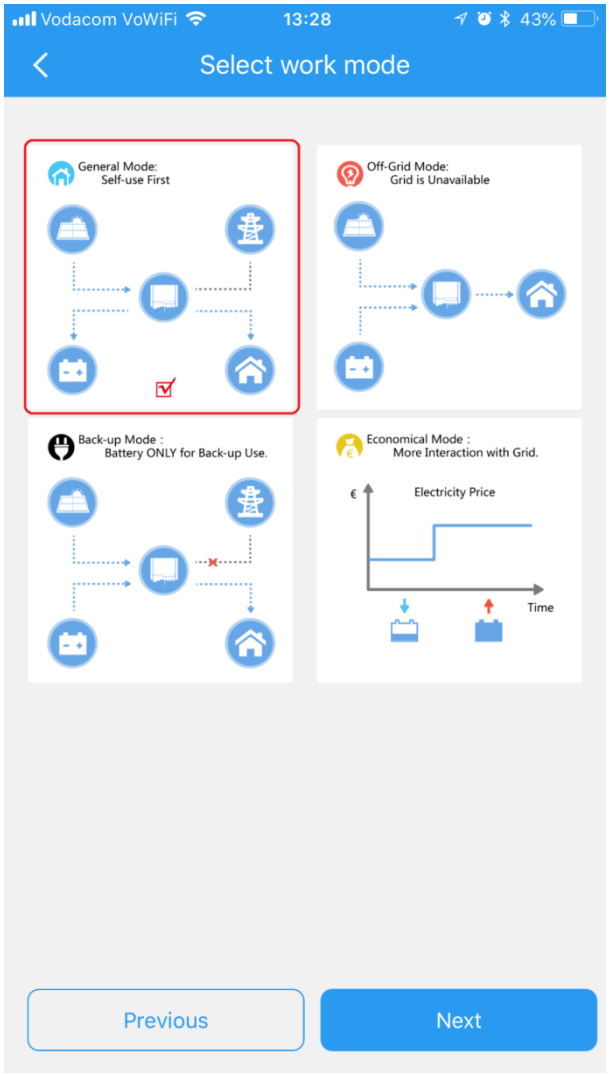


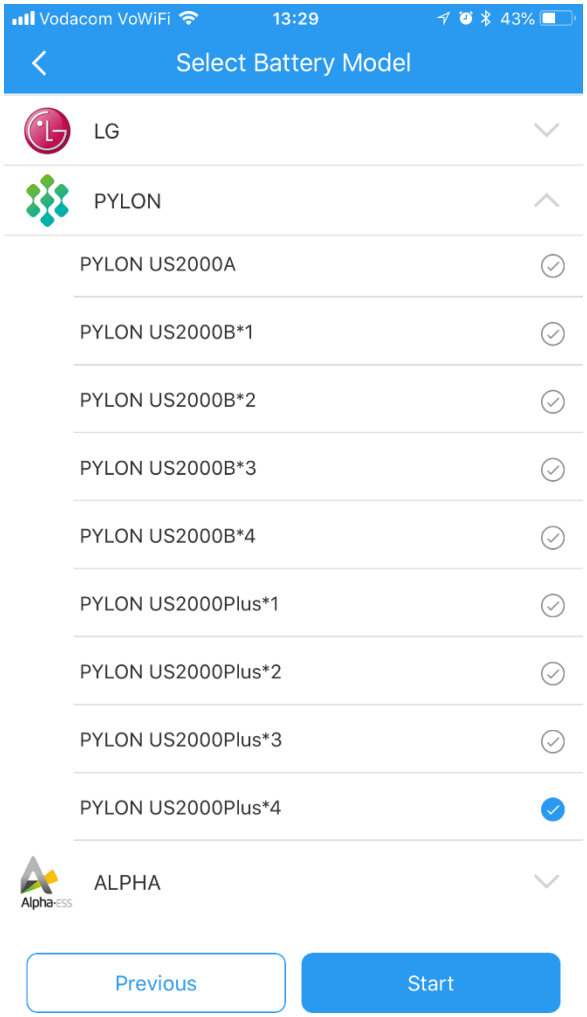


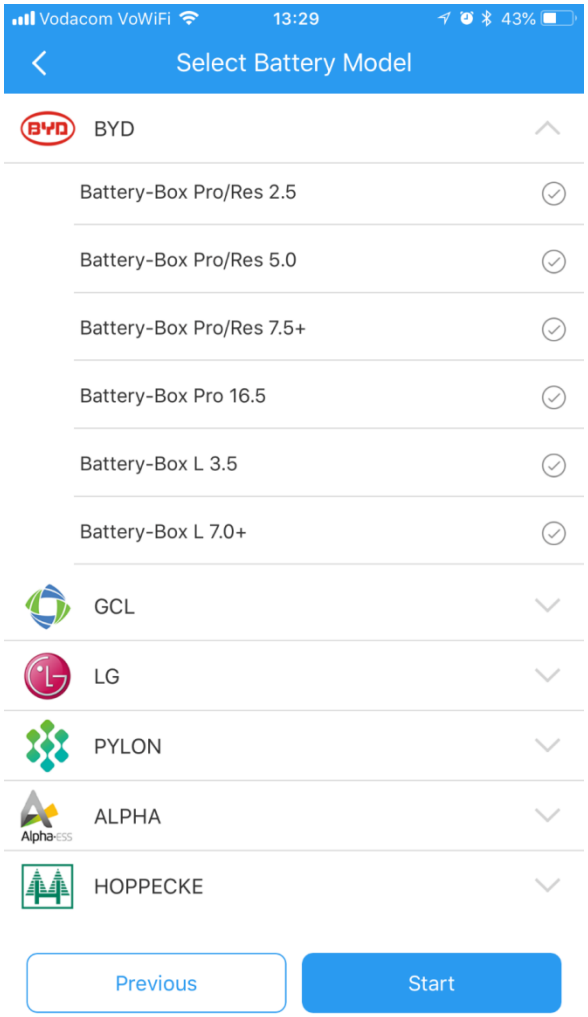

Vodacom VoWiFi
13:27
43%
Set
Basic Setting
Advanced Setting
Diagnose Message
Contact
WiFi Configure
Q & A
Overview
Param
Set

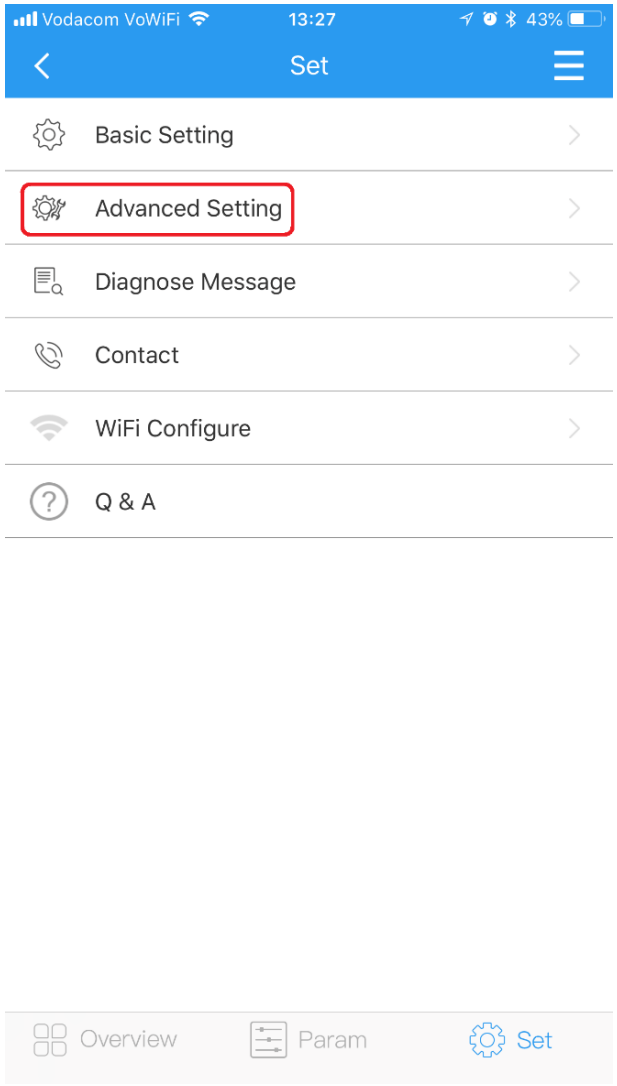

Vodacom VoWiFi
13:28
43%
Installer
goodwe2010
Login

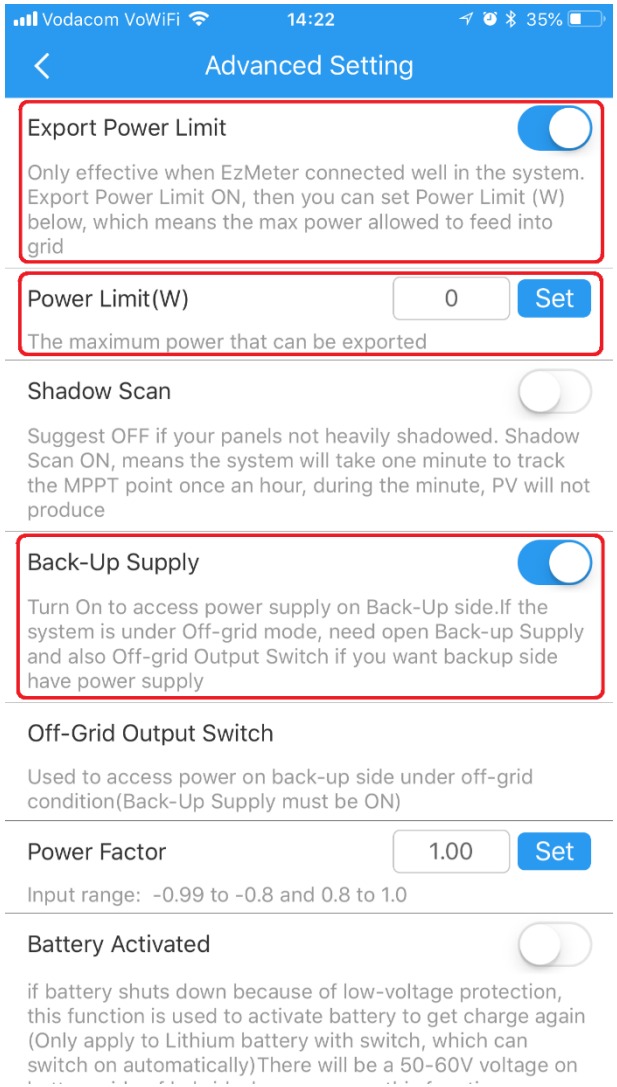

Vodacom 13:28 43%
Select Safety Country
Denmark
France
French 50Hz
French 60Hz
G59/3
G83Spec
Germany
Greece Mainland
Holland
Holland 16/20A
India
Ireland
Italy
Korea
Mauritius
NewZealand
Phillipines
Poland
Romania
South Africa
Spain
Taiwan
Thailand MEA
Thailand PEA
Next

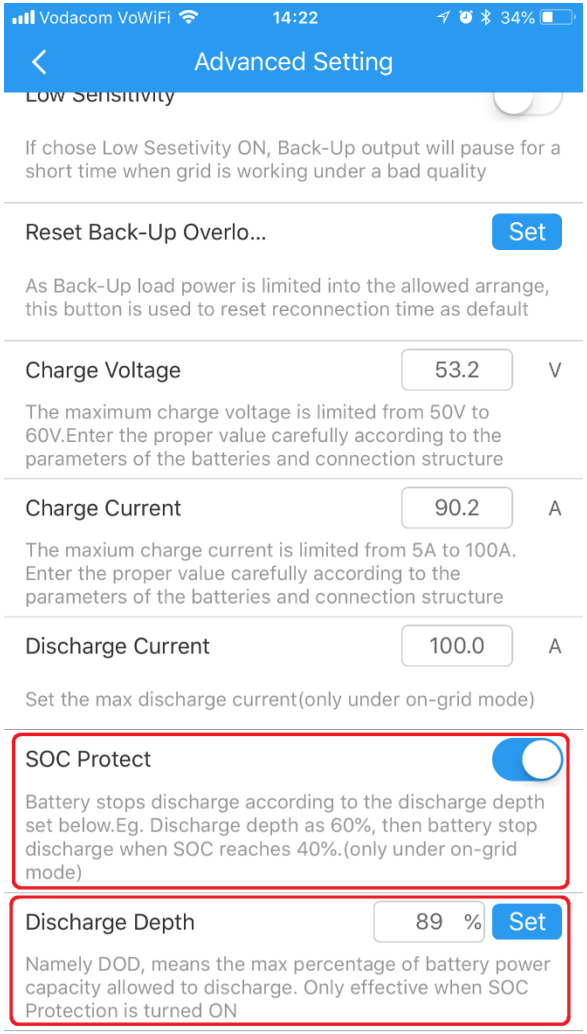

Vodacom VoWiFi 13:28 43%
Select work mode
General Mode: Self-use First
Off-Grid Mode: Grid is Unavailable
Back-up Mode : Battery ONLY for Back-up Use.
Economical Mode : More Interaction with Grid.
Electricity Price
Time
Previous
Next

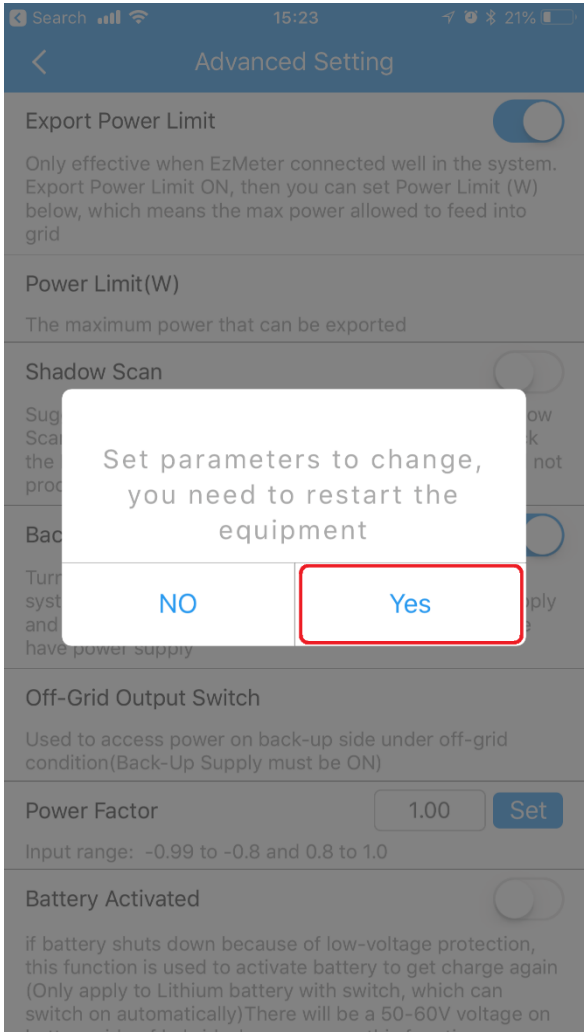

Vodacom VoWiFi
13:29
43%
Select Battery Model
LG
PYLON
PYLON US2000A
PYLON US2000B*1
PYLON US2000B*2
PYLON US2000B*3
PYLON US2000B*4
PYLON US2000Plus*1
PYLON US2000Plus*2
PYLON US2000Plus*3
PYLON US2000Plus*4
ALPHA
Previous
Start

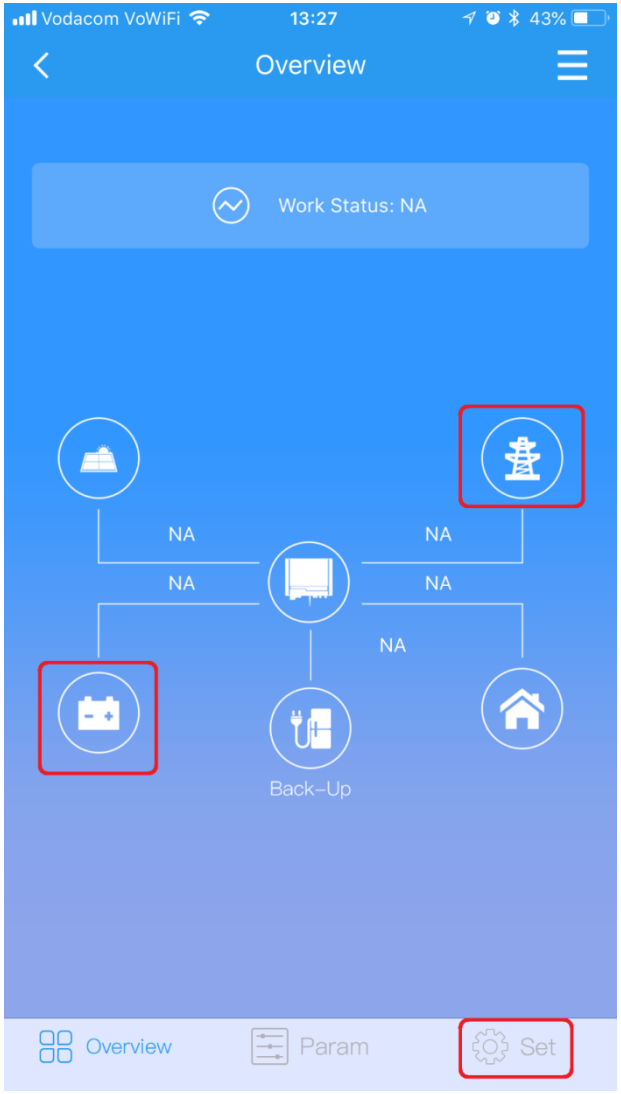

Vodacom VoWiFi
13:29
43%
Select Battery Model
BYD
Battery-Box Pro/Res 2.5
Battery-Box Pro/Res 5.0
Battery-Box Pro/Res 7.5+
Battery-Box Pro 16.5
Battery-Box L 3.5
Battery-Box L 7.0+
GCL
LG
PYLON
ALPHA
HOPPECKE
Previous
Start

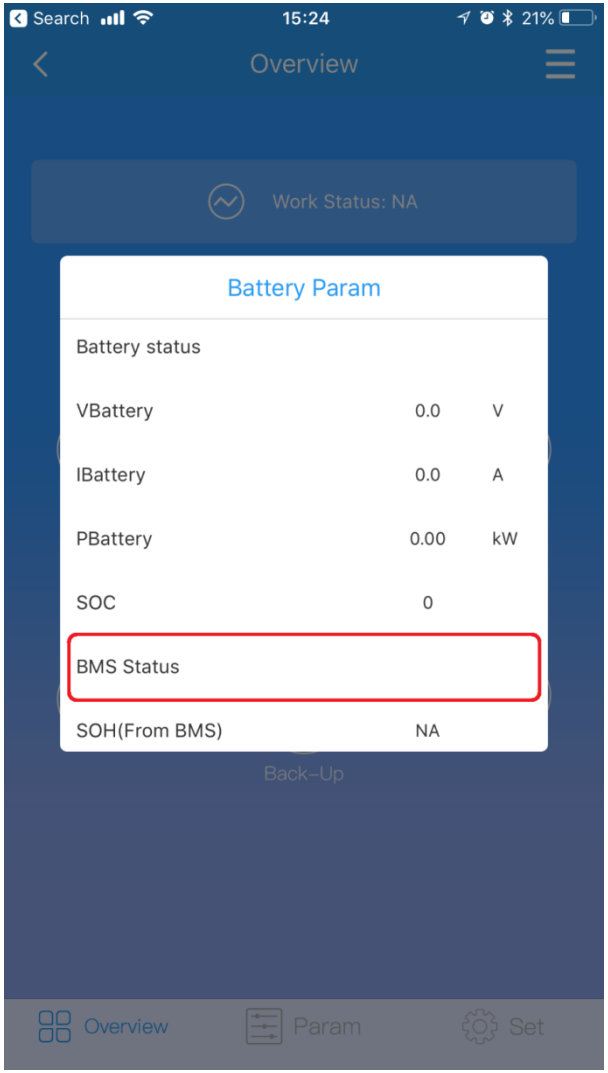

Vodacom VoWiFi
13:27
43%
Set
Basic Setting
Advanced Setting
Diagnose Message
Contact
WiFi Configure
Q & A
Overview
Param
Set

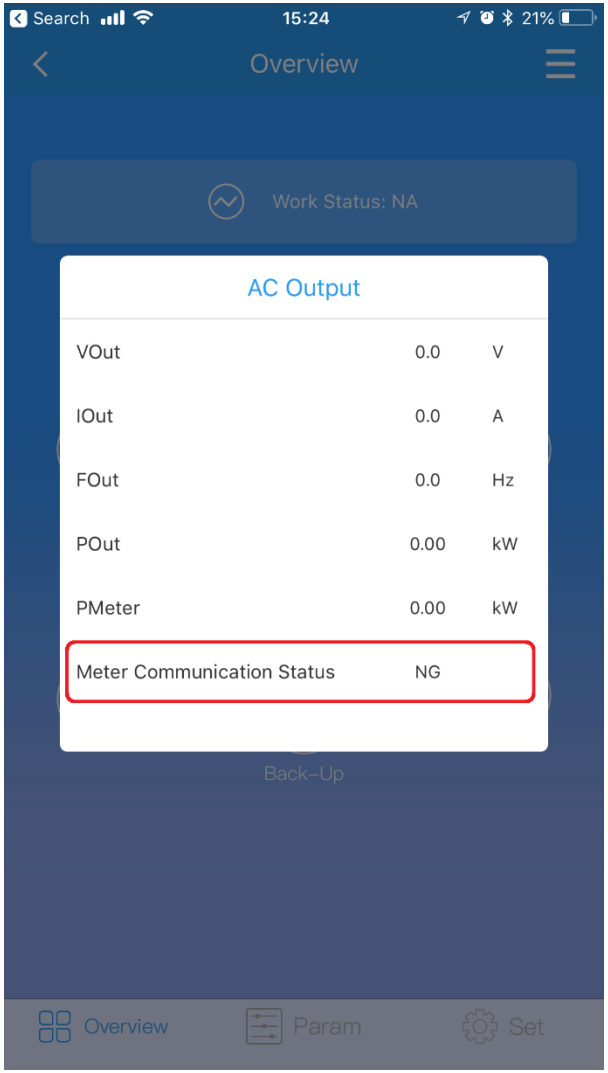

Vodacom VoWiFi
14:22
35%
Advanced Setting
Export Power Limit
Only effective when EzMeter connected well in the system. Export Power Limit ON, then you can set Power Limit (W) below, which means the max power allowed to feed into grid
Power Limit(W)
0
Set
The maximum power that can be exported
Shadow Scan
Suggest OFF if your panels not heavily shadowed. Shadow Scan ON, means the system will take one minute to track the MPPT point once an hour, during the minute, PV will not produce
Back-Up Supply
Turn On to access power supply on Back-Up side.If the system is under Off-grid mode, need open Back-up Supply and also Off-grid Output Switch if you want backup side have power supply
Off-Grid Output Switch
Used to access power on back-up side under off-grid condition(Back-Up Supply must be ON)
Power Factor
1.00
Set
Input range: -0.99 to -0.8 and 0.8 to 1.0
Battery Activated
if battery shuts down because of low-voltage protection, this function is used to activate battery to get charge again (Only apply to Lithium battery with switch, which can switch on automatically)There will be a 50-60V voltage on


Vodacom VoWiFi 14:22 34%
Advanced Setting
Low Sensitivity
If chose Low Sesetivity ON, Back-Up output will pause for a short time when grid is working under a bad quality
Reset Back-Up Overlo...
Set
As Back-Up load power is limited into the allowed arrange, this button is used to reset reconnection time as default
Charge Voltage
53.2
V
The maximum charge voltage is limited from 50V to 60V.Enter the proper value carefully according to the parameters of the batteries and connection structure
Charge Current
90.2
A
The maxium charge current is limited from 5A to 100A. Enter the proper value carefully according to the parameters of the batteries and connection structure
Discharge Current
100.0
A
Set the max discharge current(only under on-grid mode)
SOC Protect
Battery stops discharge according to the discharge depth set below.Eg. Discharge depth as 60%, then battery stop discharge when SOC reaches 40%.(only under on-grid mode)
Discharge Depth
89
%
Set
Namely DOD, means the max percentage of battery power capacity allowed to discharge. Only effective when SOC Protection is turned ON


Search 15:23 21%
Advanced Setting
Export Power Limit
Only effective when EzMeter connected well in the system. Export Power Limit ON, then you can set Power Limit (W) below, which means the max power allowed to feed into grid
Power Limit(W)
The maximum power that can be exported
Shadow Scan
Set parameters to change, you need to restart the equipment
NO
Yes
Off-Grid Output Switch
Used to access power on back-up side under off-grid condition(Back-Up Supply must be ON)
Power Factor
1.00
Set
Input range: -0.99 to -0.8 and 0.8 to 1.0
Battery Activated
if battery shuts down because of low-voltage protection, this function is used to activate battery to get charge again (Only apply to Lithium battery with switch, which can switch on automatically)There will be a 50-60V voltage on


Vodacom VoWiFi
13:27
43%
Overview
Work Status: NA
NA
NA
NA
NA
NA
Back-Up
Overview
Param
Set


Search
15:24
21%
Overview
Work Status: NA
Battery Param
Battery status
VBattery 0.0 V
IBattery 0.0 A
PBattery 0.00 kW
SOC 0
BMS Status
SOH(From BMS) NA
Back-Up
Overview
Param
Set


Search
15:24
21%
Overview
Work Status: NA
AC Output
VOut 0.0 V
IOut 0.0 A
FOut 0.0 Hz
POut 0.00 kW
PMeter 0.00 kW
Meter Communication Status NG
Back-Up
Overview
Param
Set

Sizing a Goodwe inverter

Choosing inverter size

- Back up-capacity requirements 2.3kVA or 4.6kVA?
- 2.3kVA suitable for smaller loads: lights, electronics, gate and electric fence.
- 4.6kVA suitable for larger loads: fridge, microwave, salt aquarium ect.
- PV generation capacity will be based on daily usage of the site.
- 3kVA,3.6kVA and 5kVA capacity available to suit different needs.

- The ES inverter may initially seem like a better choice because of the larger back-up supply, however more batteries would be required VS the EM range.

Sizing a Goodwe and Pylon system

Sizing the battery bank

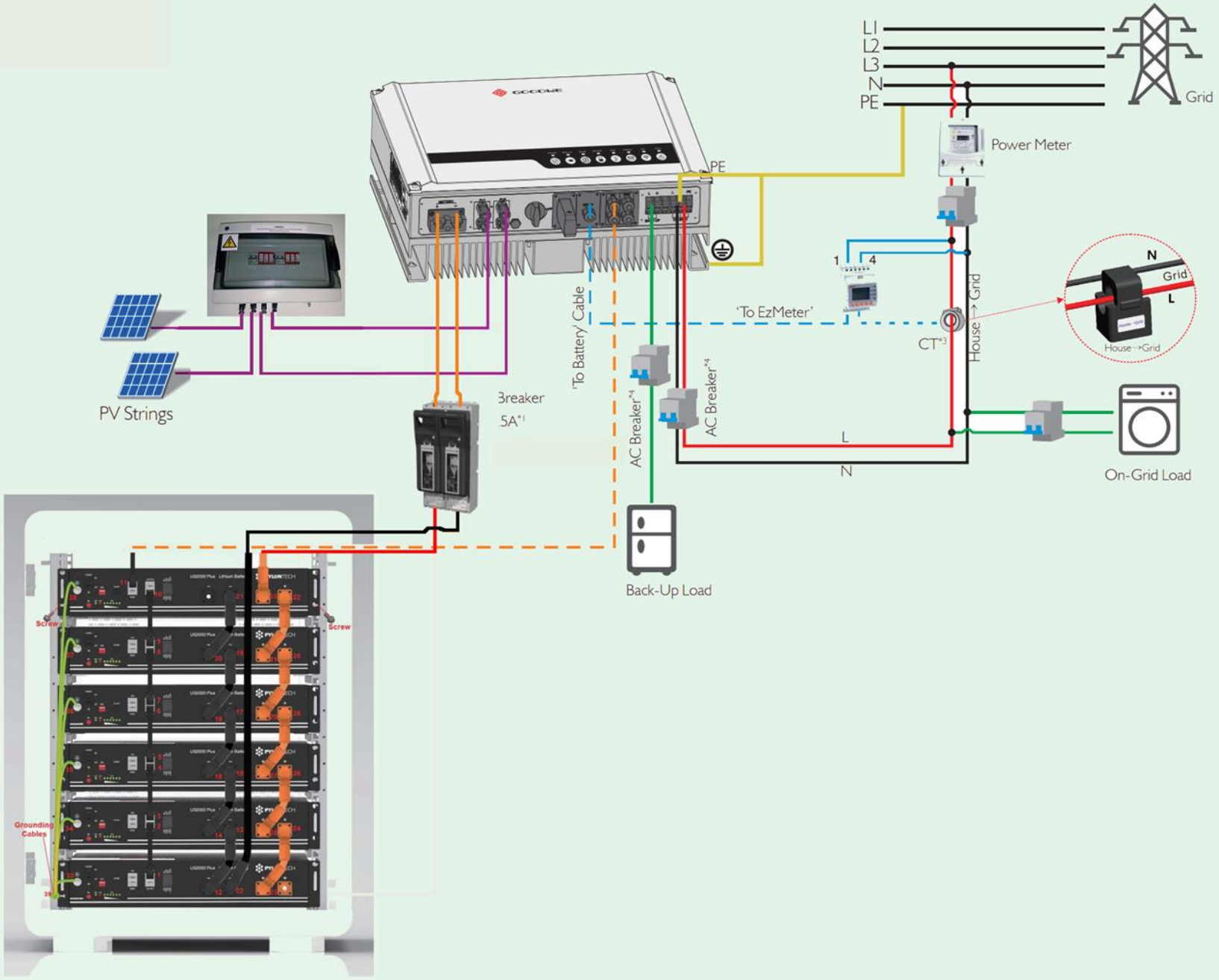
- The Goodwe inverter does not make use of the overload capability of the Pylon battery.
- The inverter will turn off the back-up circuit should the battery bank nominal current be exceeded.
- For the US2000B this current is 25A per battery, 37A for the US3000B.
- For the 4.6kVA ES inverter, a minimum of four US2000B or three US3000B units would be needed to get the rated AC output.
- For the 2.3kVA only 2 US2000B are needed to reach the max output.
- Pylon units can be discharged to 89% of their rated nominal capacity.
- When designing a bank, remember to include losses from the inverter and cables.

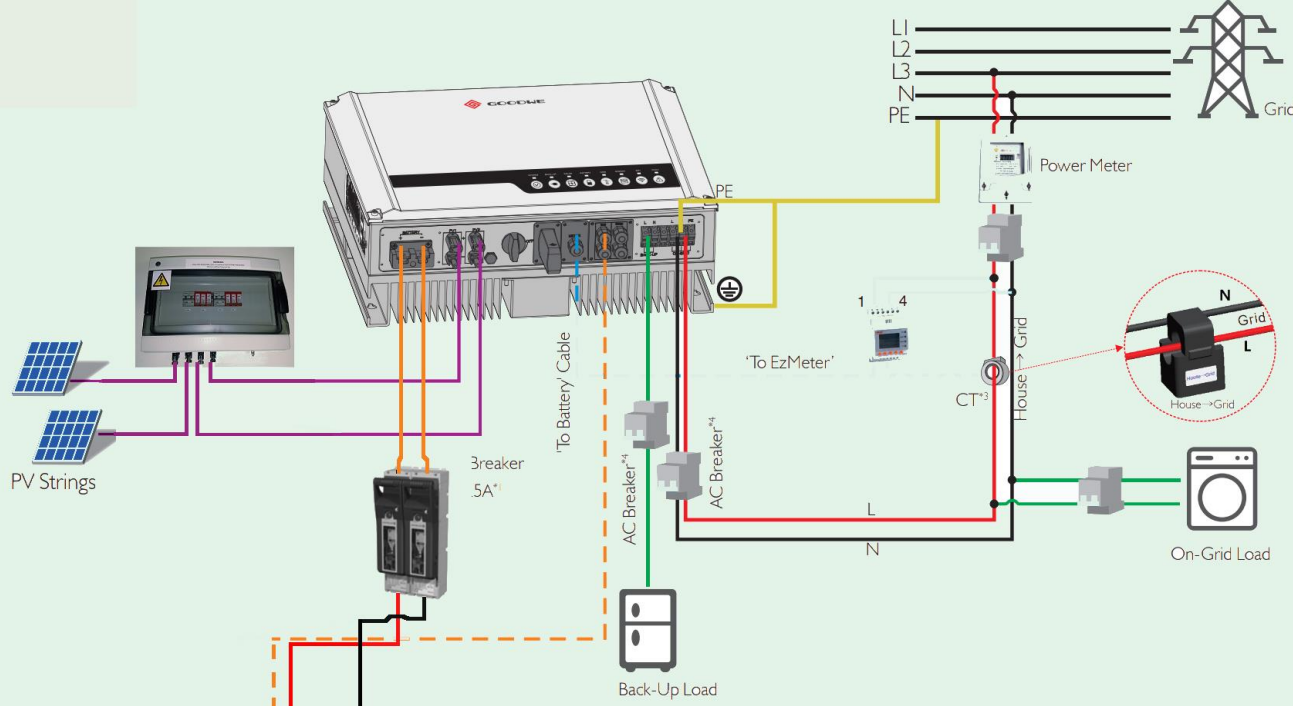
As can be seen you need twice the battery bank size to run the ES to full capacity. If cost is a concern it may be better to use a EM inverter and have only critical back-up loads.

Sizing a Goodwe and BYD system

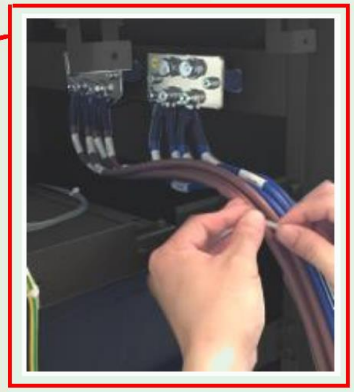
- BYD units have a larger discharge current of 50A
- For a EM inverter, only one 2.4kWH battery would be needed
- For a ES a minimum of 2 are needed.
- BYD may be a better option for the ES inverter as only two units are needed.

+


L1
L2
L3
N
PE
Grid
Power Meter
PE
PV Strings
'To Battery' Cable
'To EzMeter'
CT*3
House→Grid
N
Grid
L
House→Grid
AC Breaker*4
AC Breaker*4
L
N
On-Grid Load
Back-Up Load
Screw
Screw
Grounding Cables


L1
L2
L3
N
PE
Grid
Power Meter
PE
'To EzMeter'
CT*3
House → Grid
N
Grid
L
House →Grid
PV Strings
'To Battery' Cable
Breaker
.5A*1
AC Breaker*4
AC Breaker*4
L
N
On-Grid Load
Back-Up Load


4 CAN_H
5 CAN_L
CAN
Alarm Relay Output
Run



Trouble shooting common issues

Unit reading export even though export is disabled.

- Check CT direction
- Check meter communication

Unit not communicating to batteries.

- Check cable, must be plugged into CAN port
- Check addressing switches
- Check settings for correct battery selection

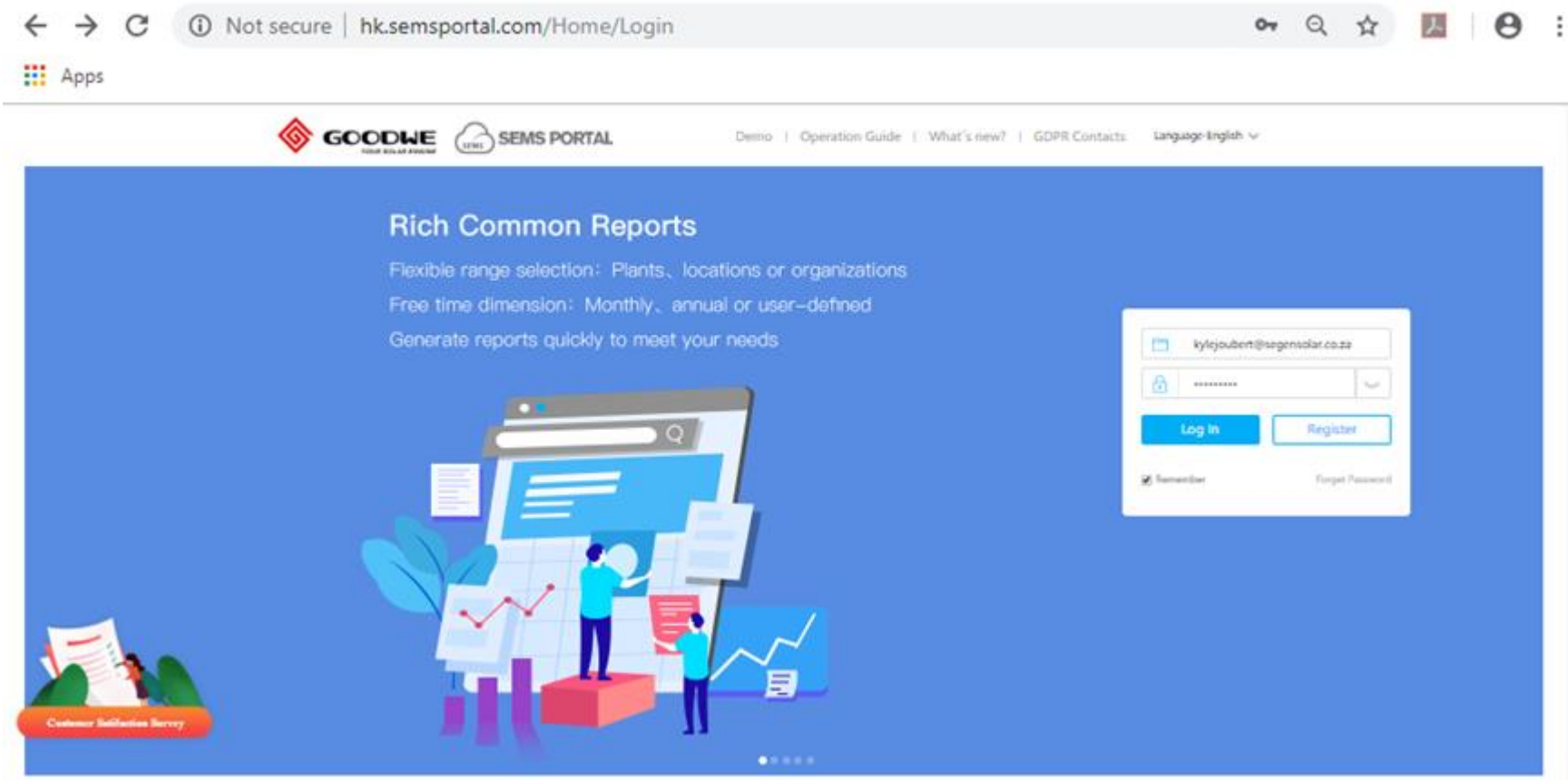
PV Master not connecting or getting setup failed message.

- Ensure WiFi dongle firmware is latest version
- Ensure PV master is latest version

Unit not connecting to WiFi, Sems portal showing “offline”

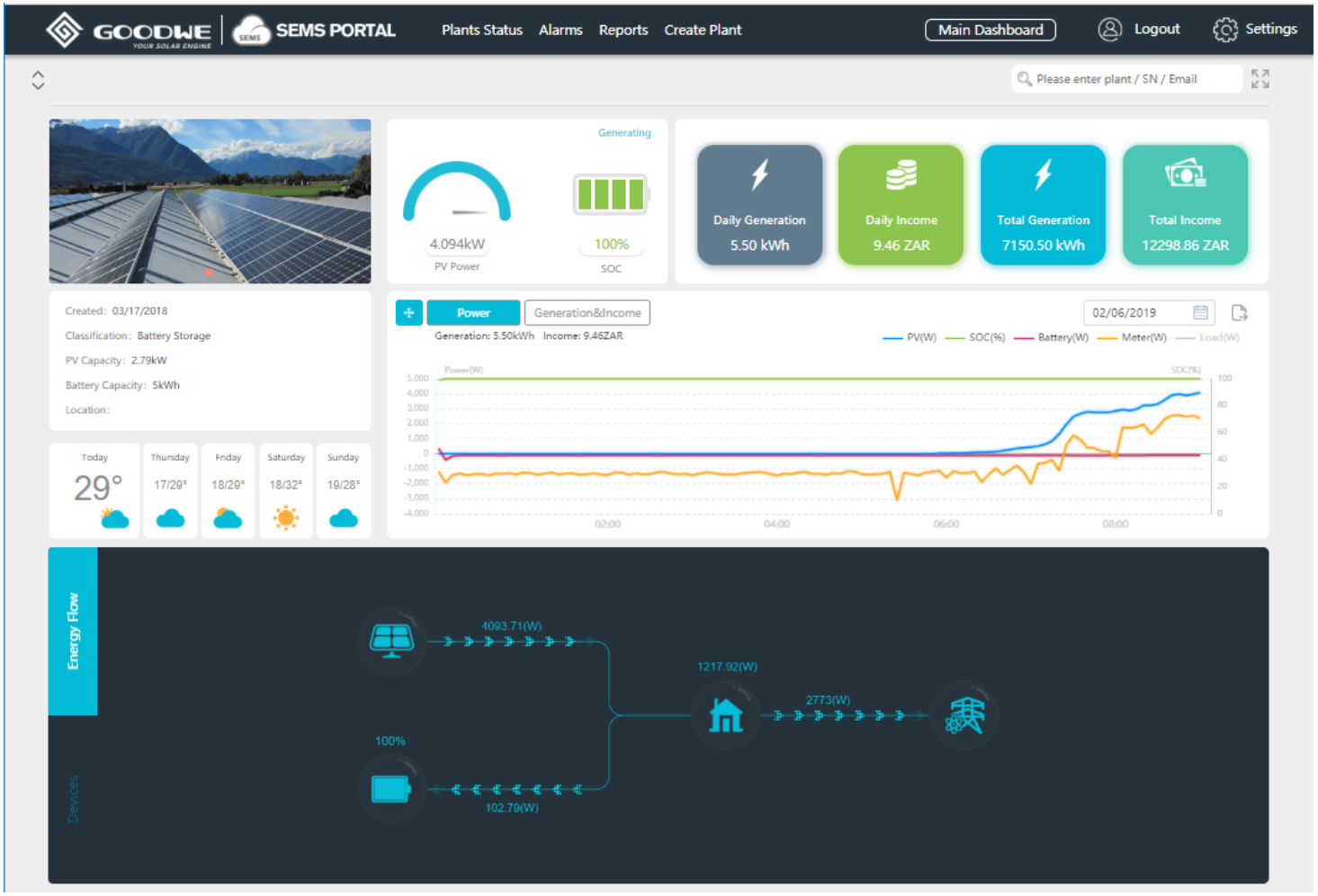
- Inverter firmware and WiFi firmware should be updated with latest version

System Monitoring

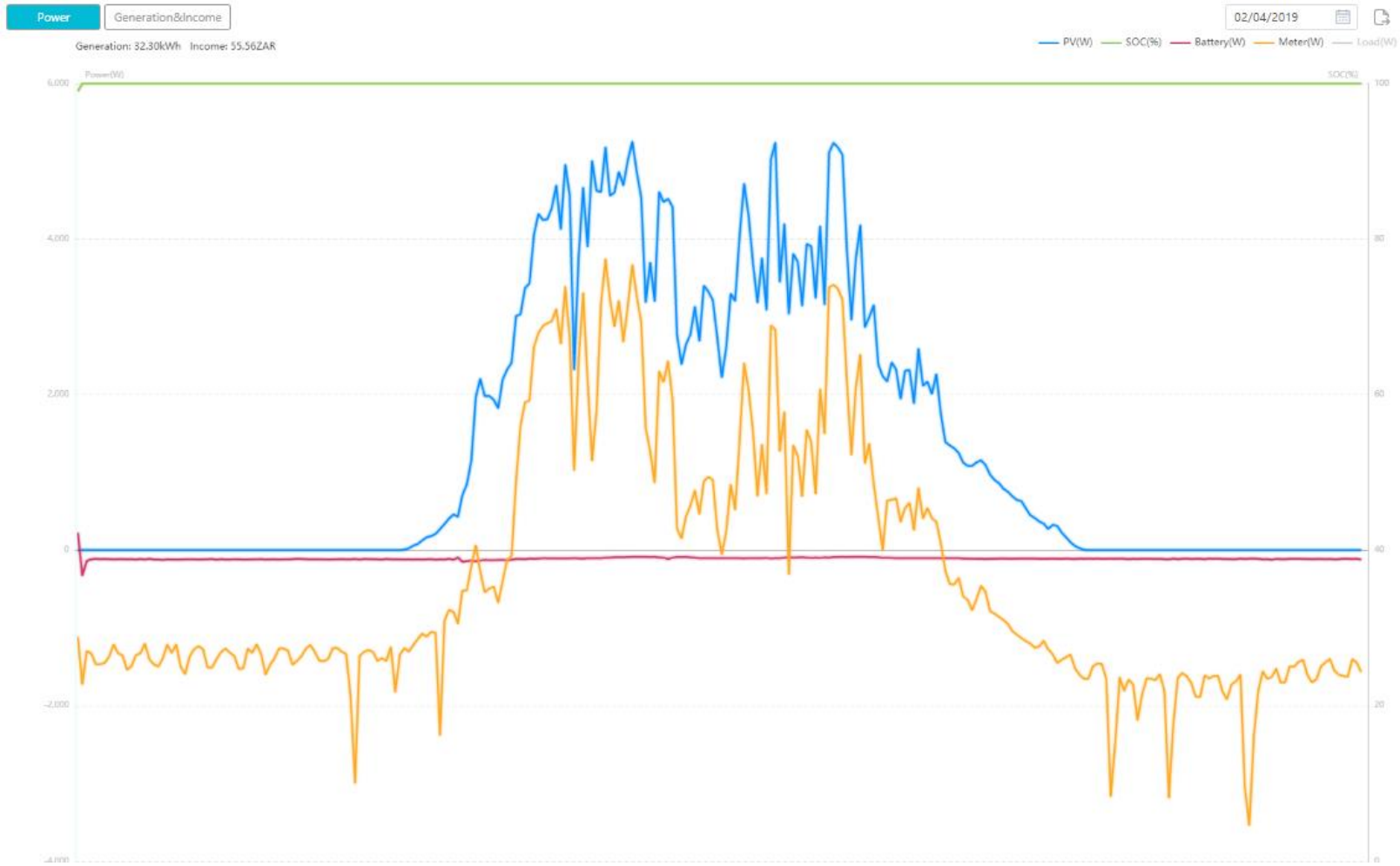


http://www.goodwe-power.com/

Monitoring Platform



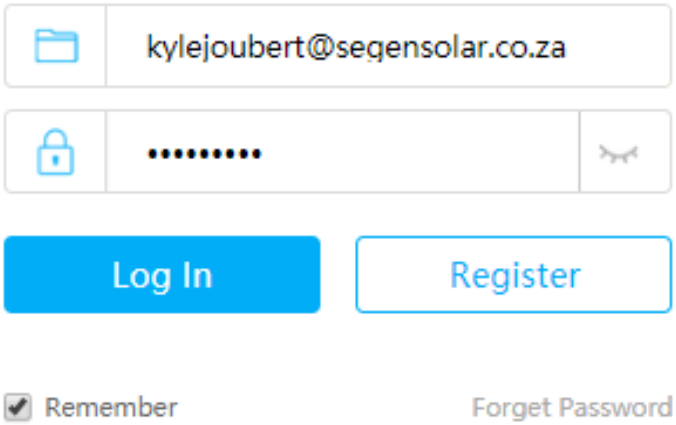
Station Overview

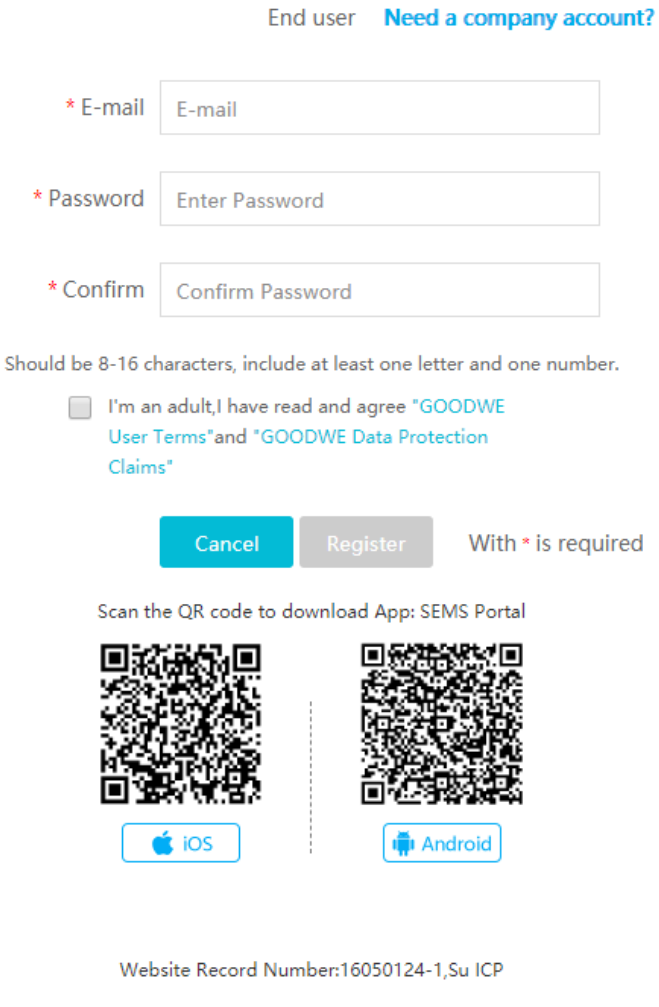


Register an Account

Select End User and complete the form.

Visitors will need to create an End User account

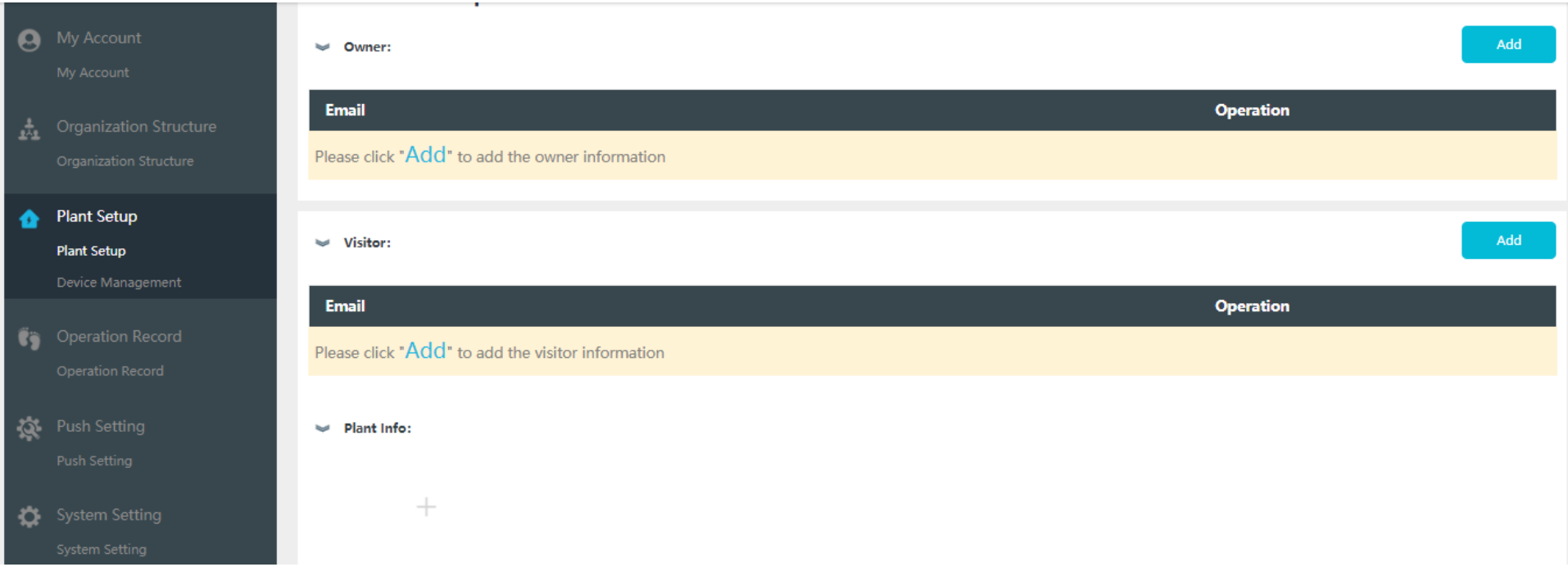




Add a Station

Station

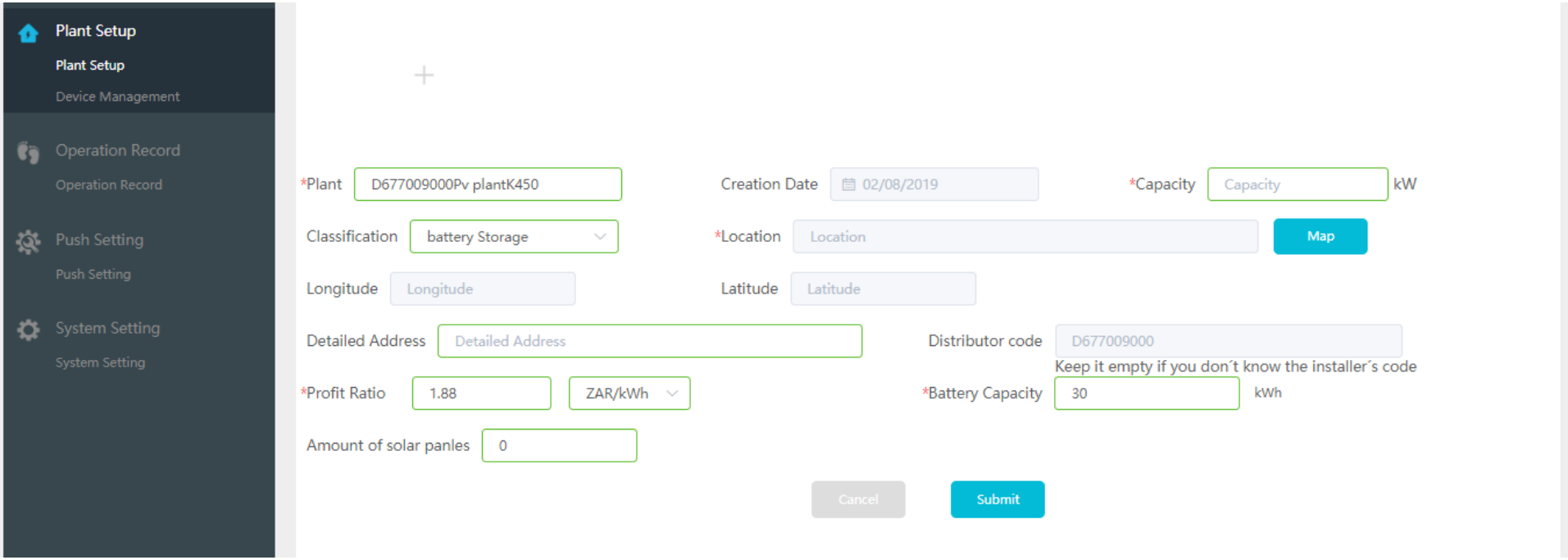
1. Go into Plant Setup and add owner email



Add a Station

Station

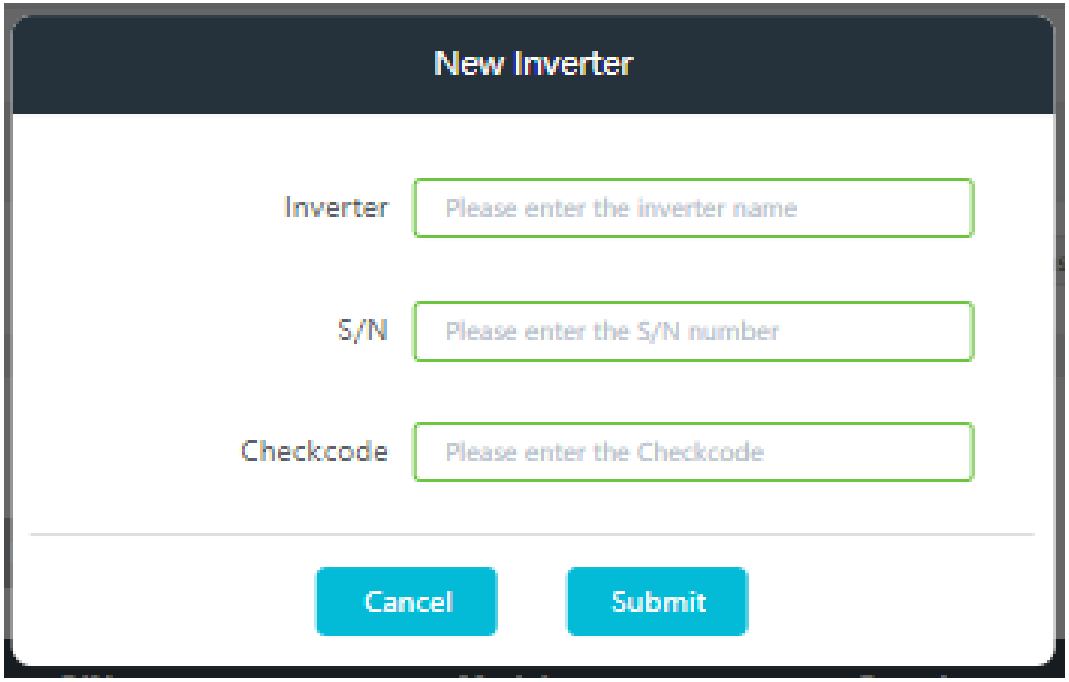
1. Continue and complete the details, click submit
2. The system will then prompt to add a inverter to the plant



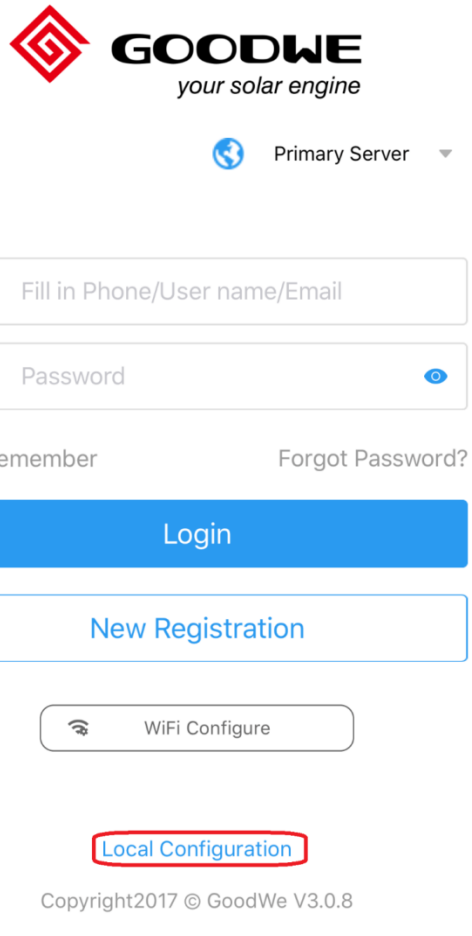
Add an Inverter

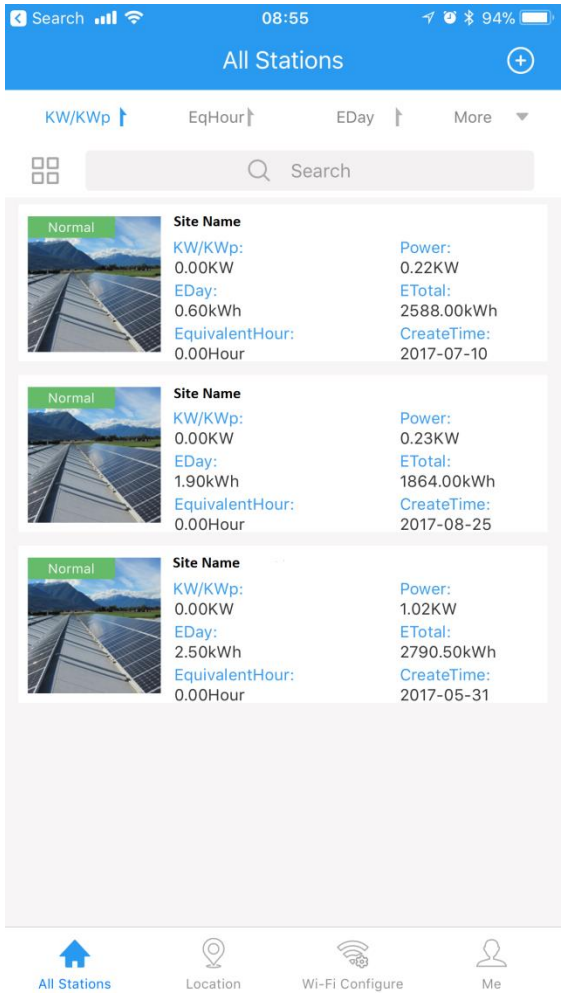
The **Serial Number** and **Check Code** will be required to register an inverter.

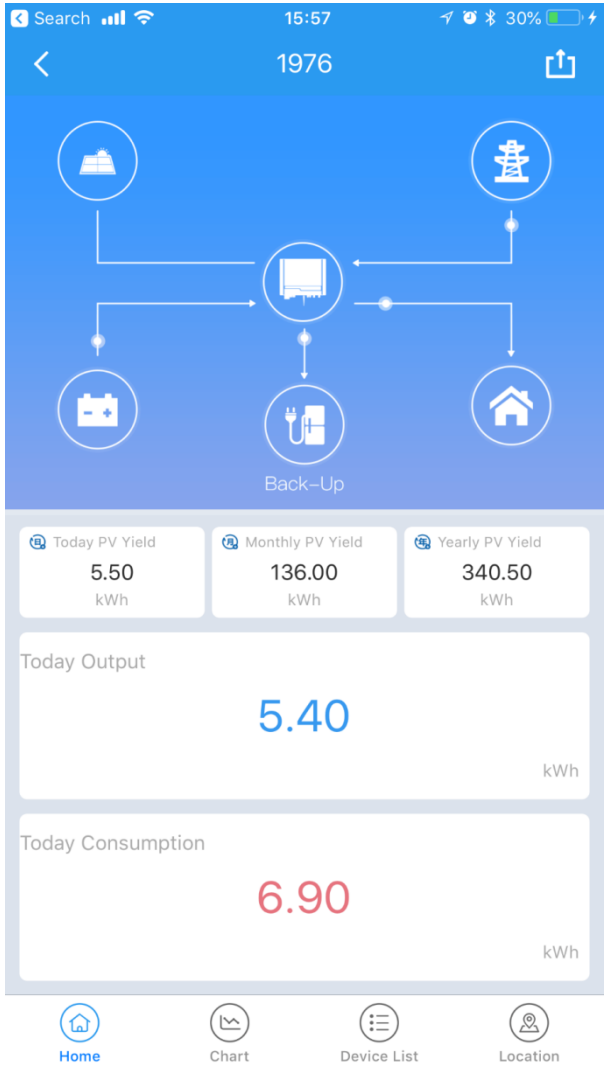
The **Serial Number** and **Check Code** can be found on the inverter name plate.

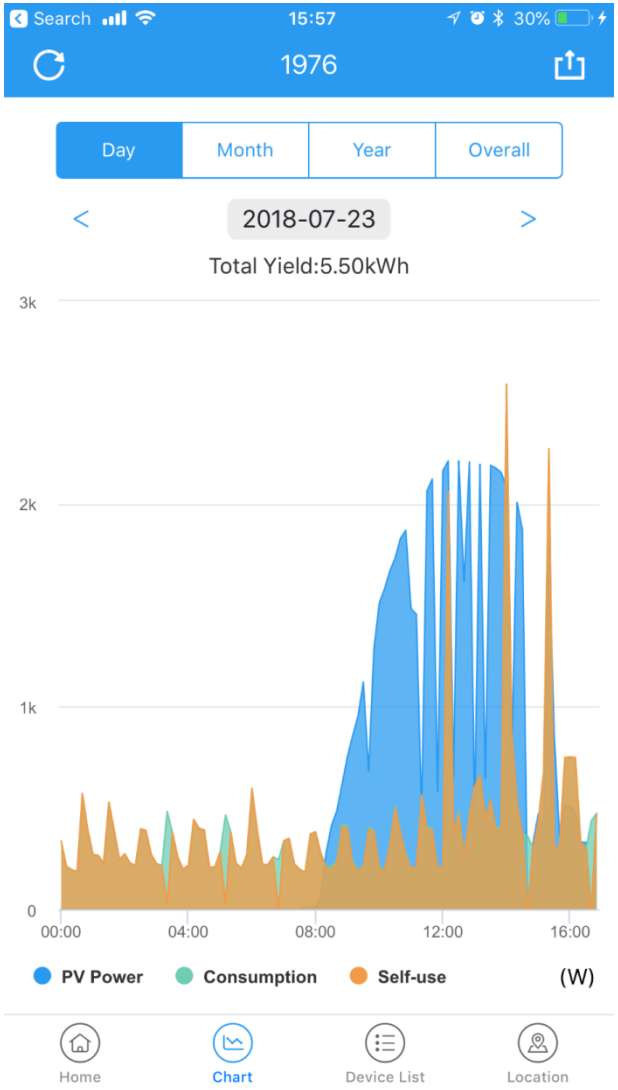


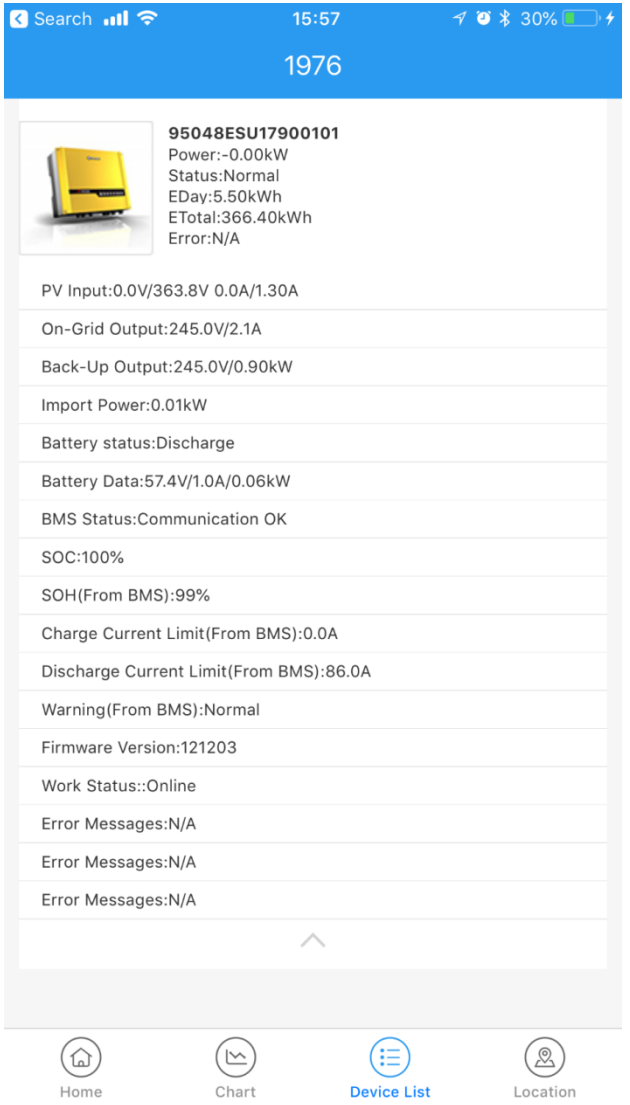
APP Monitoring





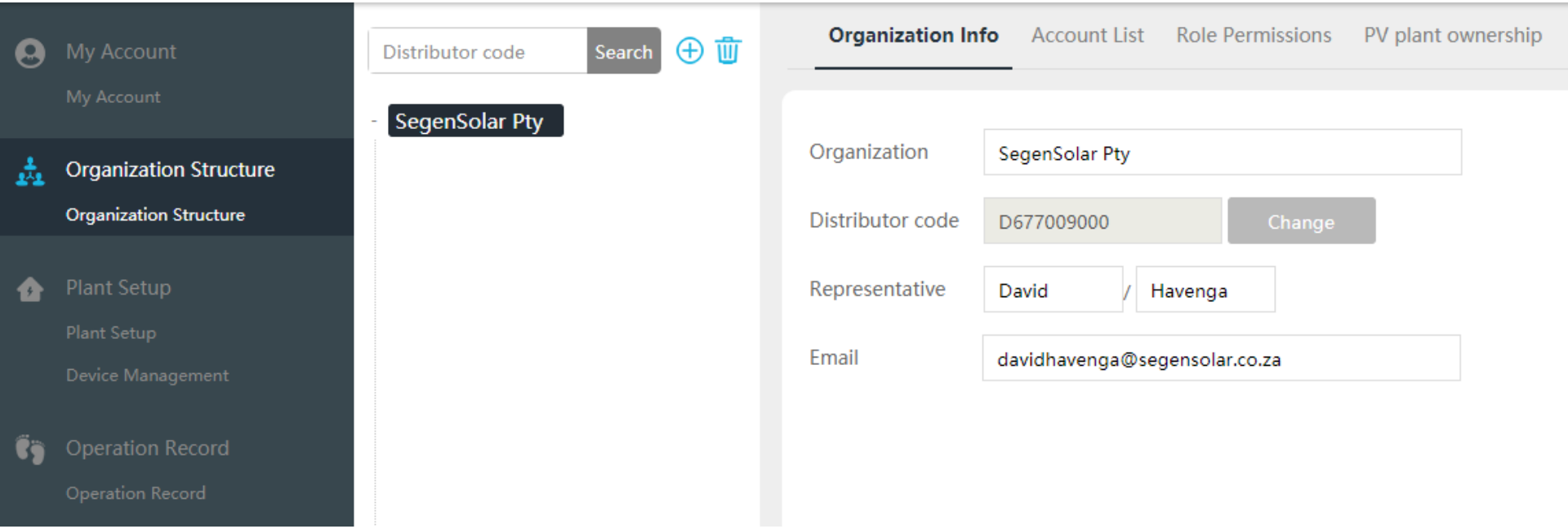

Search
15:57
30%
1976
Back-Up
Today PV Yield
5.50
kWh
Monthly PV Yield
136.00
kWh
Yearly PV Yield
340.50
kWh
Today Output
5.40
kWh
Today Consumption
6.90
kWh
Home
Chart
Device List
Location


Search
15:57
30%
1976
Day
Month
Year
Overall
2018-07-23
Total Yield:5.50kWh
3k
2k
1k
0
00:00
04:00
08:00
12:00
16:00
PV Power
Consumption
Self-use
(W)
Home
Chart
Device List
Location


Search
15:57
30%
1976
95048ESU17900101
Power:-0.00kW
Status:Normal
EDay:5.50kWh
ETotal:366.40kWh
Error:N/A
PV Input:0.0V/363.8V 0.0A/1.30A
On-Grid Output:245.0V/2.1A
Back-Up Output:245.0V/0.90kW
Import Power:0.01kW
Battery status:Discharge
Battery Data:57.4V/1.0A/0.06kW
BMS Status:Communication OK
SOC:100%
SOH(From BMS):99%
Charge Current Limit(From BMS):0.0A
Discharge Current Limit(From BMS):86.0A
Warning(From BMS):Normal
Firmware Version:121203
Work Status::Online
Error Messages:N/A
Error Messages:N/A
Error Messages:N/A
Home
Chart
Device List
Location

Installer Accounts

- Contact SegenSolar for a installer account
- Installer can view all connected installations

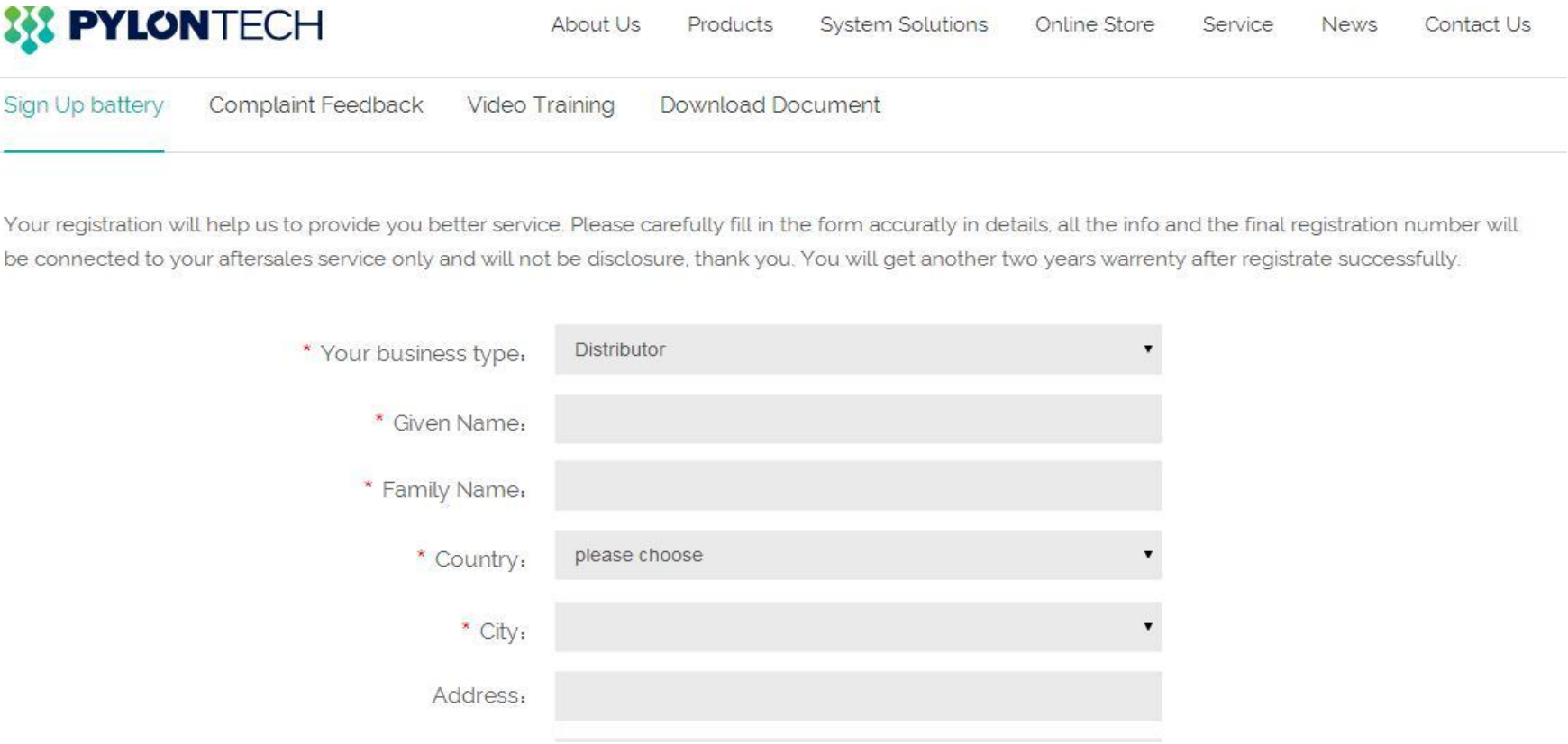


Pylon Application Note and Documents

Specification | Other Parts | Availability | Documents | Diagnostics

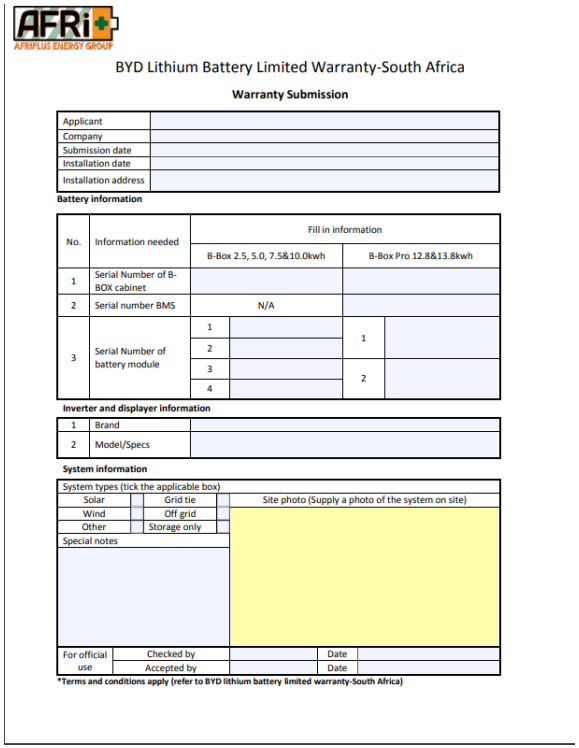
- Application Note Pylon & Axpert/Infinisolar
- CE Declaration of Conformity PylonTech US2000B Plus
- Data Sheet Pylontech ESS US2000B Plus and Phantom S
- Data Sheet SafetyDataSheet Pylon 2.4kWh range
- Installation Manual ESS US2000 Plus
- Installation Manual Pylontech Voltronic Settings
- Product Compatibility Pylon B and B Plus and Phantom
- Safety Transport & Handling Documentation US2000B Phantom
- UN38.3 PylonTech US2000 range
- Warranty ESS US2000 Plus Terms and Conditions SA
- Warranty Pylontech Voltronic Validation form

Warranty extension



http://www.pylontech.com.cn/service/support

Warranty BYD



BYD Lithium Battery Limited Warranty-South Africa

Warranty Submission

Applicant	
Company	
Submission date	
Installation date	
Installation address	

Battery information

No.	Information needed	Fill in information			
		B-Box 2.5, 5.0, 7.5&10.0kwh		B-Box Pro 12.8&13.8kwh	
1	Serial Number of B-BOX cabinet				
2	Serial number BMS	N/A			
3	Serial Number of battery module	1		1	
		2			
		3		2	
		4			

Inverter and displayer information

1	Brand	
2	Model/Specs	

System information

System types (tick the applicable box)				
Solar		Grid tie		Site photo (Supply a photo of the system on site)
Wind		Off grid		
Other		Storage only		
Special notes				
For official use	Checked by		Date	
	Accepted by		Date	

*Terms and conditions apply (refer to BYD lithium battery limited warranty-South Africa)

Complete form and submit to SegenSolar

https://portal.segensolar.co.za/reseller/docs/warranty_submission_ver.3.1_20170922.pdf

Product Warranty

STANDARD WARRANTY

GOODWE NS SS DS DT ES series inverters come standard with a **manufacturer's warranty of 66 months (5.5 years)** from the date of production from JIANGSU GOODWE POWER SUPPLY TECHNOLOGY Co., Ltd (hereinafter referred to as GOODWE).

The accessory products include Antenna, EzConverter, EzMeter and EzLogger come standard with a manufacturer's warranty of 30 months (2.5 years) from the date of manufacturing from GOODWE.

For inverters (GOODWE NS SS DS DT ES series), and the accessory products, the warranty can be extended within 24months (2 years) from the date of manufacturing. Please obtain the warranty extension price list form GOODWE Sales for further information.

Thank you!