



LUXPOWER TECHNICAL TRAINING

YOUR RELIABLE ENERGY SOLUTION PARTNER



SD+New Energy Mall
Bayint Naung Road, Chaung Wa Seiken, Ward 3,
Hlaing Township, Yangon

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- 1 About LuxpowerTek**
- 2 Product Highlights for 6K and 12K**
- 3 Features of Lux Monitoring System**
- 4 Inverter Setting Introduction**
- 5 Comparison with Other Brands**

Part 1

About

LuxpowerTek

LuxpowerTek, founded in 2017 and headquartered in Shenzhen, specializes in hybrid and off-grid inverter R&D and manufacturing. With over 320,000 global installations, its products are sold in 80+ countries, supported by local teams in South Africa, Europe, and the U.S.

HISTORY



2017

Company Establishment

Focused on the R&D of energy storage solutions
With 10 engineers over 10 years experience

2019

First Hybrid Inverter Launched

Successfully entered the European market with the first hybrid inverter, quickly expanding into the Japanese and Australian markets, achieving significant success.

2021

First Off-Grid Model Success in SA

Received multiple international certifications, marking the beginning of global expansion.
Hybrid inverters and off-grid get UL, CE, VDE, NRS

2024

Global User Base over 320,000

In 2024, LuxPower reached a major milestone with over 320,000 users in 80 countries, marking a significant step in global adoption.
And residential inverter sales amount exceeds Brand D in USA

2025

Innovation Continues

Increasing at 100% speed
Leading in North America, Europe, South Africa, South East Asia.
Have full series of residential and small commercial inverter and battery
Prepare to be listed in 2026

Global Tech-Support Network



Global Sub-branch: 4 (USA, Brasil, South Africa, Nigeria)

Global Self-Operated Technical Service Centers: 3 (1 in the USA, 1 in South Africa, 1 in Pakistan)

Global Partner Technical Service Centers:9 (2 in Myanmar, 3 in South Africa, 1 in Italy, Brazil, Spain and Nigeria)

Product Portfolio

Inverter

Off-Grid/Eco-Hybrid(1ph)	1.5-14kw(16p)
Hybrid Inverter(1ph/3ph)	3kw-30kw(10p)
Off-Grid All-In-One(1ph)	6kw/15kwh(6p)

Battery

LV	5kwh/10kwh/11.8kwh/14.3kwh/16kwh
HV	5kwh-40kwh(residential, 20p)
HV	100-215kwh(commercial, 10p)



Part 2 Product Highlights

Myanmar's unique energy challenges demand smart, flexible, and resilient solar solutions. LuxpowerTek delivers high-efficiency hybrid and off-grid inverters designed to meet both residential and commercial needs in diverse environments.



Highlights

02

SNA-EU 6K

- ☑ 9600W max. PV input with 2(1:1) MPPT
- ☑ Up to 16pcs in parallel for on/off grid, auto setting
- ☑ Separate GEN Port
- ☑ Multi working modes Self consumption, AC charge, PV charge
- ☑ **Eco hybrid, can sell power to grid if grid allows**

01

SNA-EU 12K

- ☑ 24000W max. PV input with 2 (2:2) MPPT
- ☑ 100A grid passthrough for whole home backup
- ☑ Up to 16pcs in parallel for on/off grid
- ☑ Separate Smart Load Port for smart load and AC couple
- ☑ Separate GEN Port
- ☑ **Eco hybrid, can sell power to grid if grid allows**
- ☑ **Integrated battery, load breakers to save over 240,000MMK**

03

Lithium-ion Battery

A+ Cell Low voltage

- ☑ IP20/IP65
- ☑ Stackrack and wall-mounted
- ☑ 1C rate for charge and discharge
- ☑ 10 years warranty
- ☑ Parallel up to 32 modules
- ☑ 48V and high voltage

6K GEN port functions

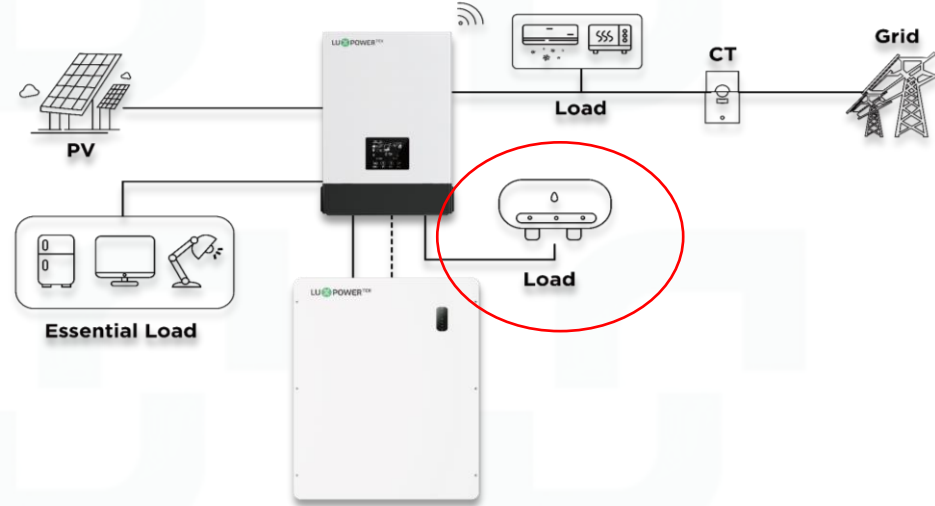
Smart Load Output (SNA EU 6K)

6kW

Off-grid mode:
Maximum smart load power

9kW

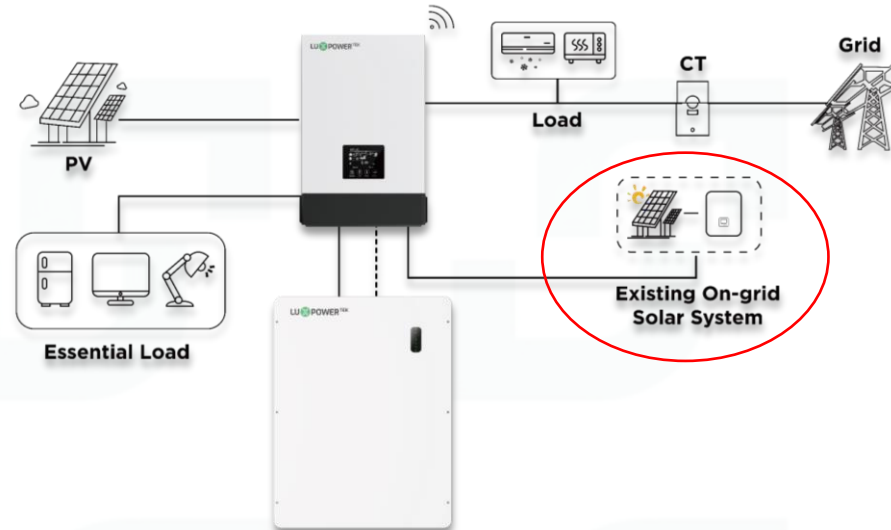
Grid-connected mode:
Maximum smart load power



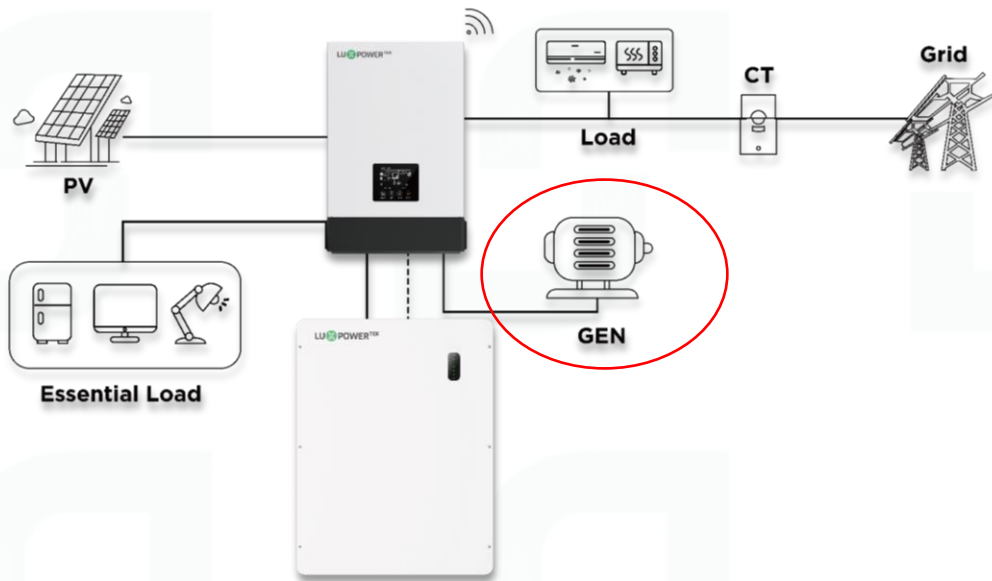
AC Coupling Input (SNA EU 6K)

9kW

Max. AC coupling input



GEN Port of 6k and 12k as Generator AC input



GEN Boost

Enables solar + battery to work alongside the generator to power loads.

GEN Exercise

Weekly automatic startup to test generator status and keep it ready.

GEN Auto Start-Stop

Generator starts/stops automatically based on SOC or user settings, with optional dry contact control.

Remark: 12k has separate smart load port and GEN port

Separate Smart Load Port Function for SNA-EU 12K

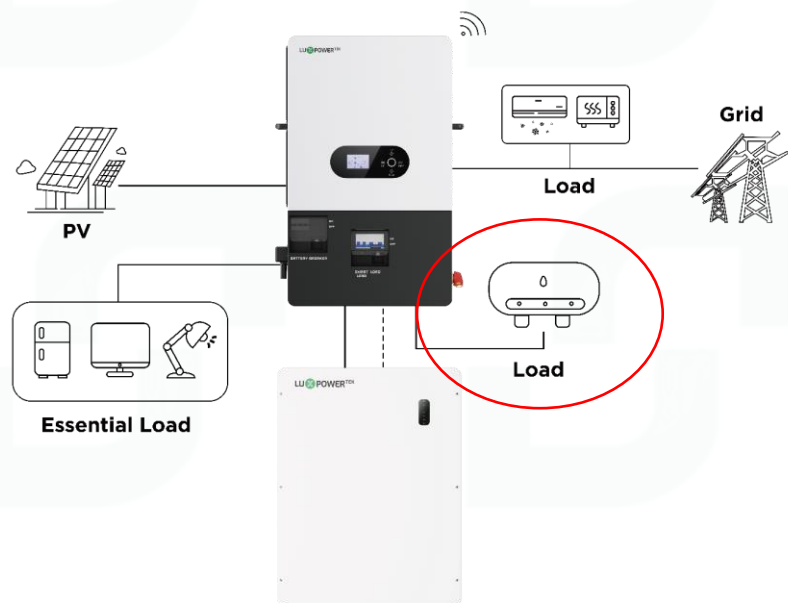
Smart Load Output (SNA-EU 12K)

12kW

Off-grid mode:
Maximum smart load power

18kW

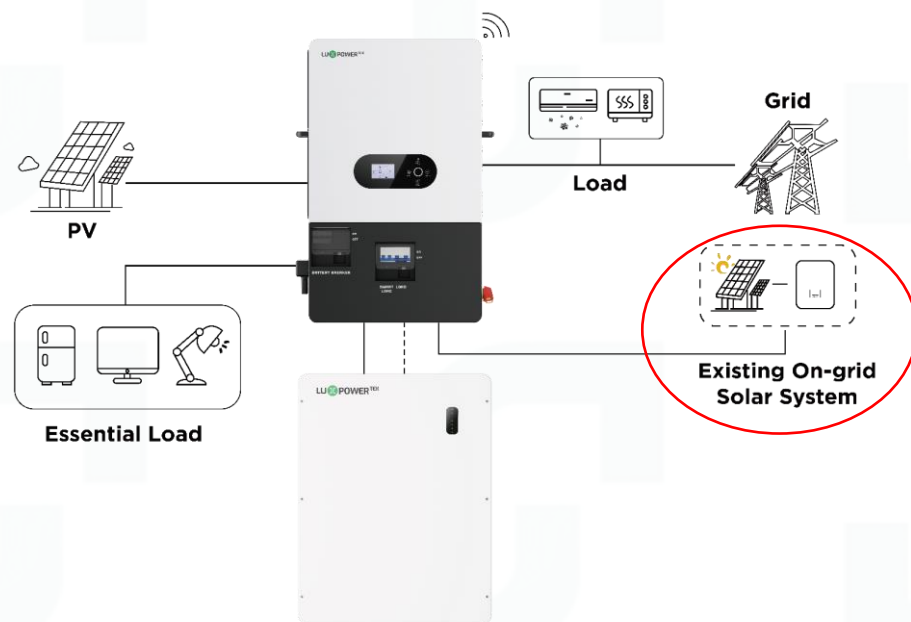
Grid-connected mode:
Maximum smart load power



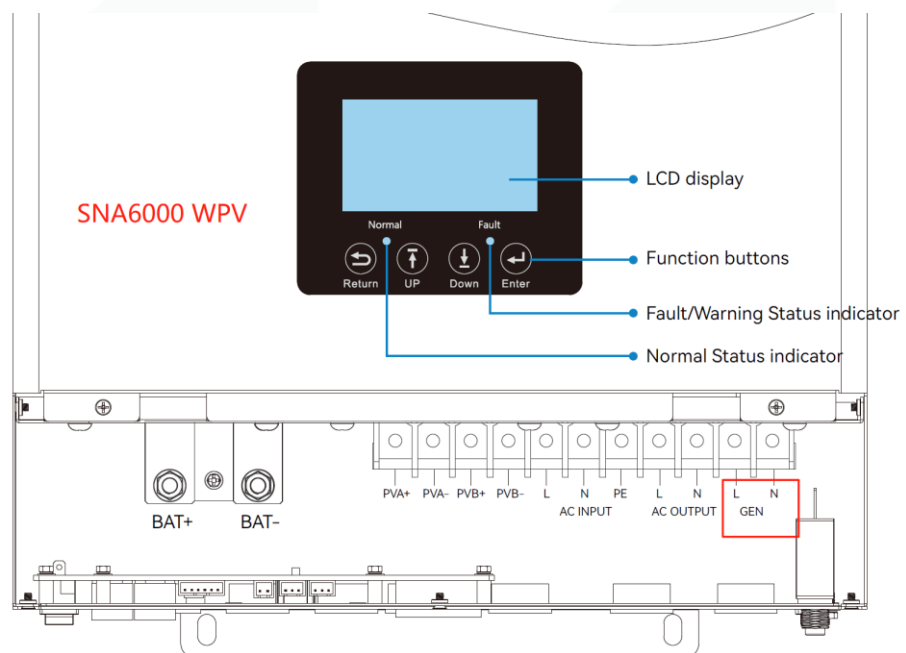
AC Coupling Input (SNA-EU 12K)

18kW

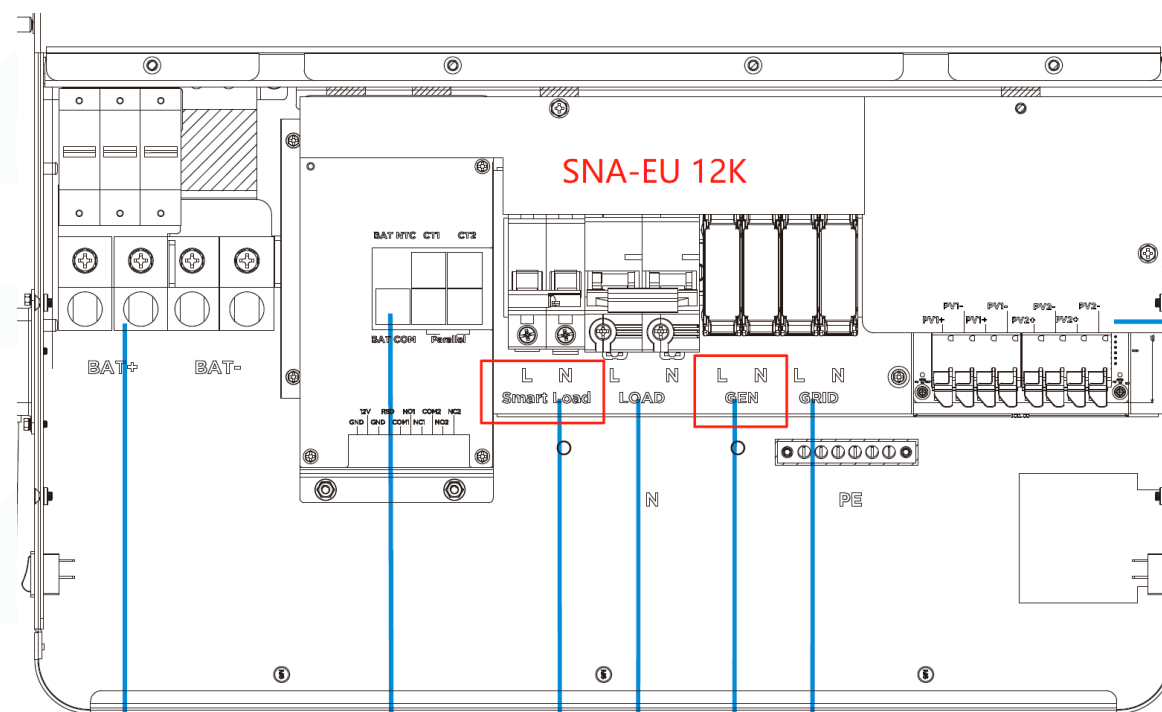
Max. AC coupling input



SNA6000 WPV



SNA-EU 12K



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Features of Lux Monitoring System

LuxCloud Monitor

Real-time monitoring for inverters and batteries

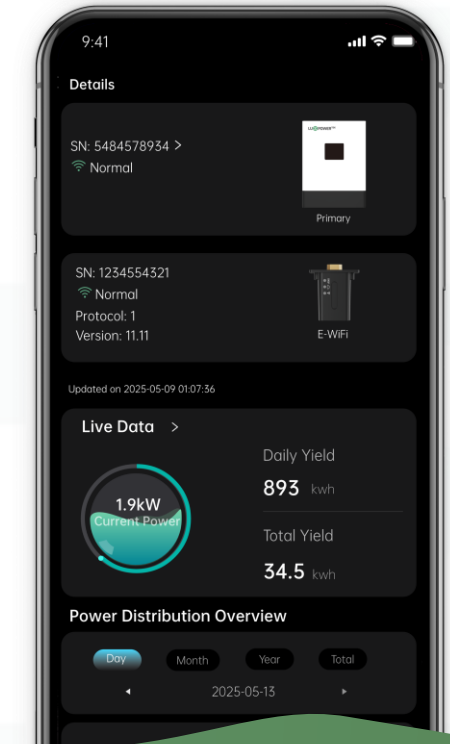
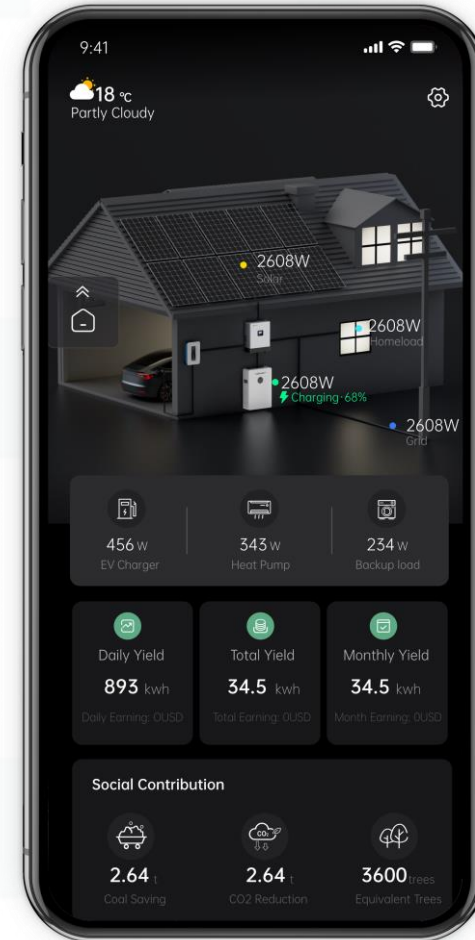
App & web access for flexible control

Remote config, OTA updates, and smart alerts

Role-based access: Distributor / Installer / User

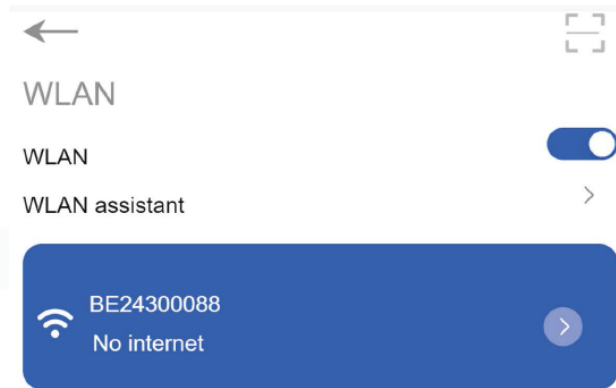
AI-powered control for TOU, generators & smart loads

Built-in LuxBot for instant Q&A and tech support

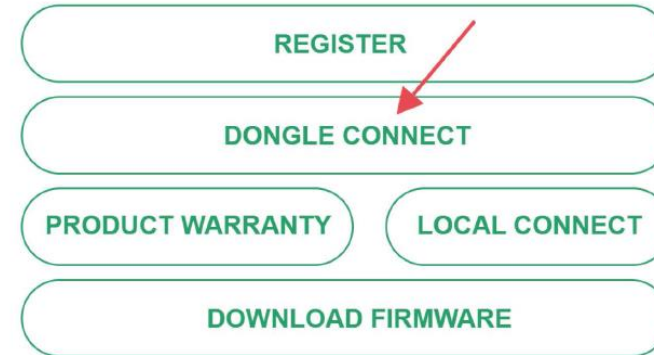


Connect with Wifi Dongle

Step 1. Connect with Wifi dongle's hotspot



Step 2. Click “ DONGLE CONNECT ”



Step 3. Connect to user's Wifi with Password



Step 4. Click Home Wifi Connect, Dongle is OK now !



Account Registration Via APP

Homepage of Monitoring

Register

Fill in the registration
information

Require the **Installer code**
from your upper
distributor

Username

Password

☒ Remember username ☒ Auto login

LOGIN

Forgot password?

☒ I have read and agree to [Privacy Policy](#) and [User Terms](#)

— or —

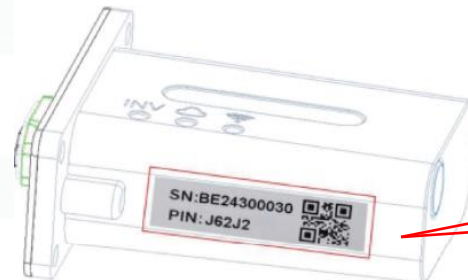
REGISTER

DONGLE CONNECT

PRODUCT WARRANTY LOCAL CONNECT

DOWNLOAD FIRMWARE

Version 4.2.0



* Cluster Asia(1)

* Username

* Password

* Repeat password

Real name

* E-mail

Tel number

* Station name User Site Name

* Daylight saving time

* Continent Asia

* Region East Asia

* Country China

* Timezone GMT +6

Address

* Remote tech support

* Installer code offered by your supplier

* Dongle SN

* Dongle PIN

REGISTER

LU X POWER^{TEK}

SANDISOLAR

Account System

Each Level has an account given by its upper level seller, who can create installer code it.

Each level can see all the users created by itself or its lower level installer

Sandisolar

Distributor X

Installer Y — End User

Installer Y Assistant Account

End User

Distributor X Assistant Assistant Account

Installer X

End User

Installer X Assistant Account

Account System

Monitor

Data

Configuration

Overview

Maintenance

Assistant account can be assigned by main account, no number limit



Cluster: Asia

English

Stations

Dongles

Devices

Users

Points Details

User Migration Record

Operation Record

+ Add Assistant

+ Add Distributor_2

+ Add Installer

+ Add end user

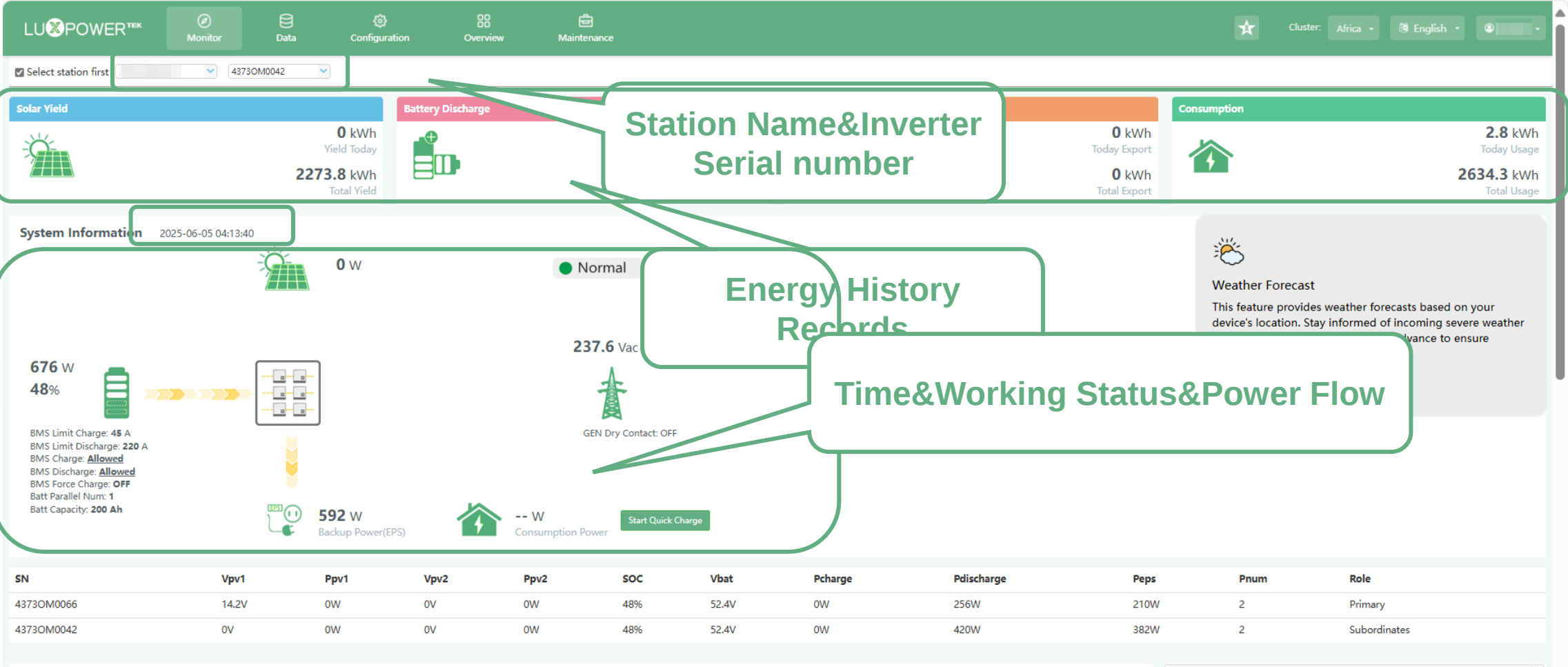
All Role

Search by user

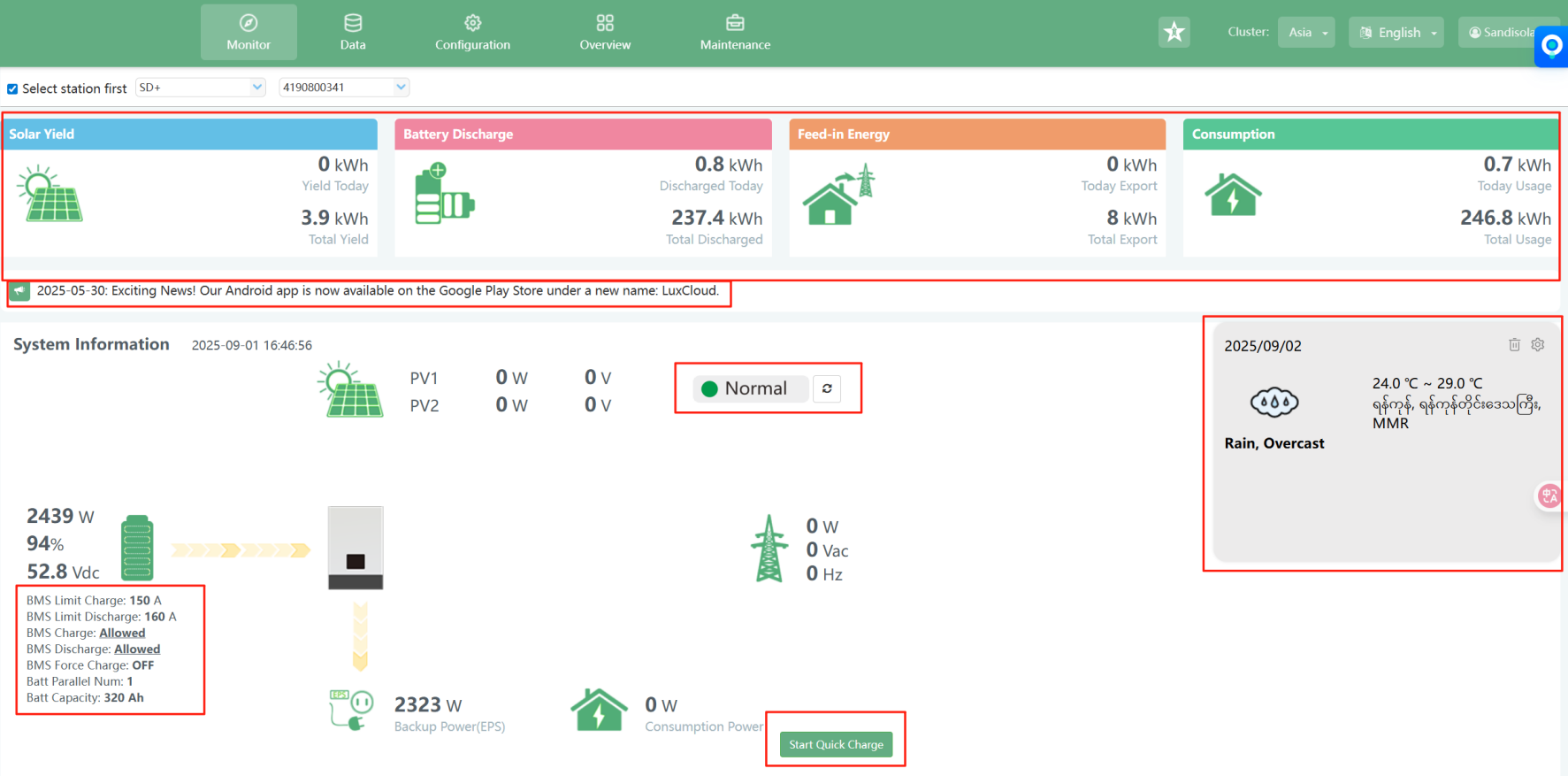
☒ Show disabled user

	Username	Nickname	Role	Country	Timezone	Create Time	User Permission	Installer Code	Tech support
1	kaixi	Lin Liu	Installer	Burma	GMT	2025-0	Normal	SANDISOLAR > S01 > KINEWENERGY	Tel number
2	Hlwan	anmoe	Installer	Burma	GMT	2025-0	Normal	SANDISOLAR > company01 > anmoe93	
3	OPENL	nlogik	Installer	Burma	GMT	2025-0	Normal	SANDISOLAR > company01 > 001 > JPI	E-mail
4	KTZ EN	KTZ	Installer	Burma	GMT	2025-0	Normal	SANDISOLAR > company01 > S001 > I	
5	ASG (TA	olgyi	Installer	Burma	GMT	2025-0	Normal	SANDISOLAR > TAIKKYI	WhatsApp
6	MANDA	DALAYWINL	Installer	Burma	GMT	2025-0	Normal	SANDISOLAR > IGH	WhatsApp
7	Solarpc	ower	Installer	Burma	GMT	2025-0	Normal	SANDISOLAR > power	WhatsApp
8	U Min	ing Nyunt	Installer	Burma	GMT	2025-0	Normal	SANDISOLAR > ingnyut	WhatsApp
9	Phyo W	et Yan	Installer	Burma	GMT	2025-0	Normal	SANDISOLAR > electronics	WhatsApp

Monitor Main Page update in 3mins



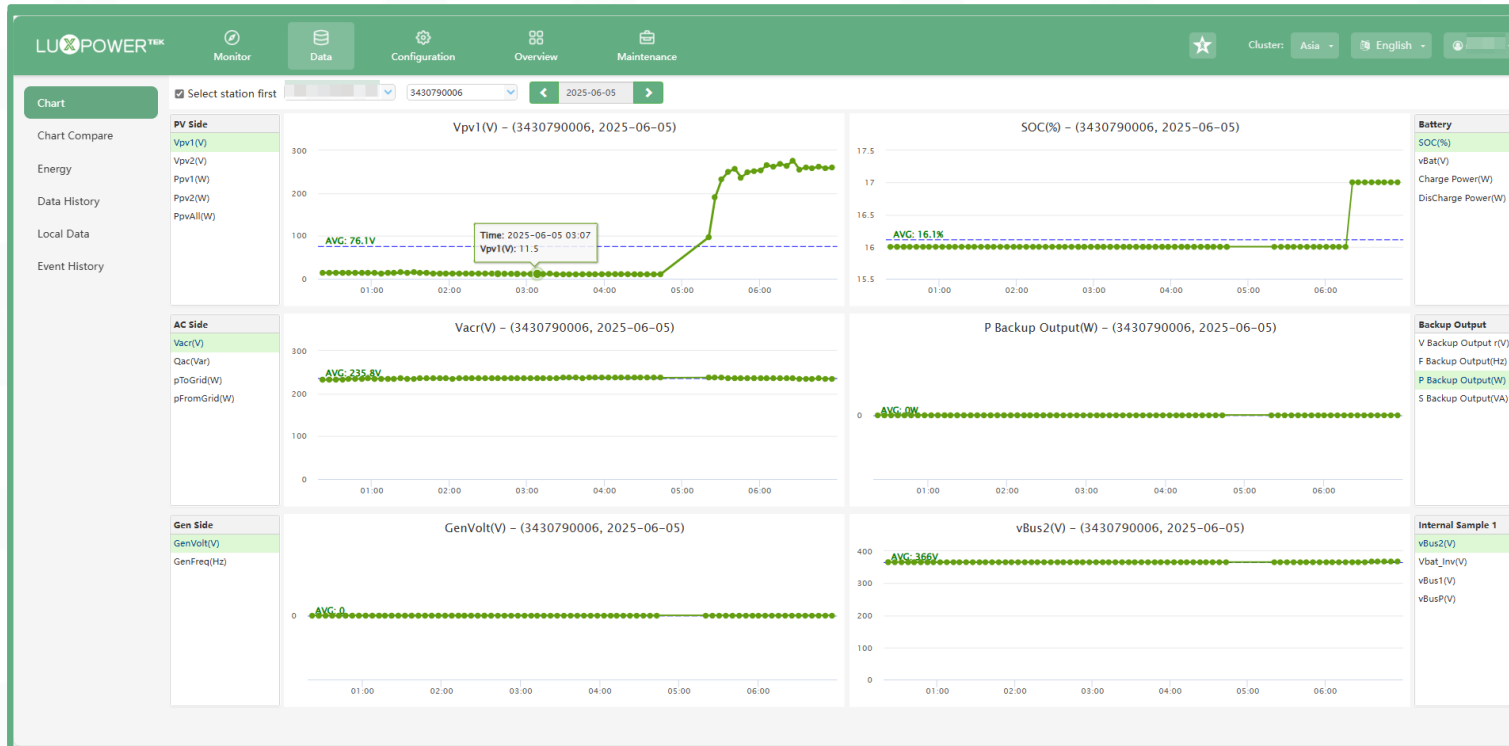
Monitor Main Page update in 3mins



Shortcut key

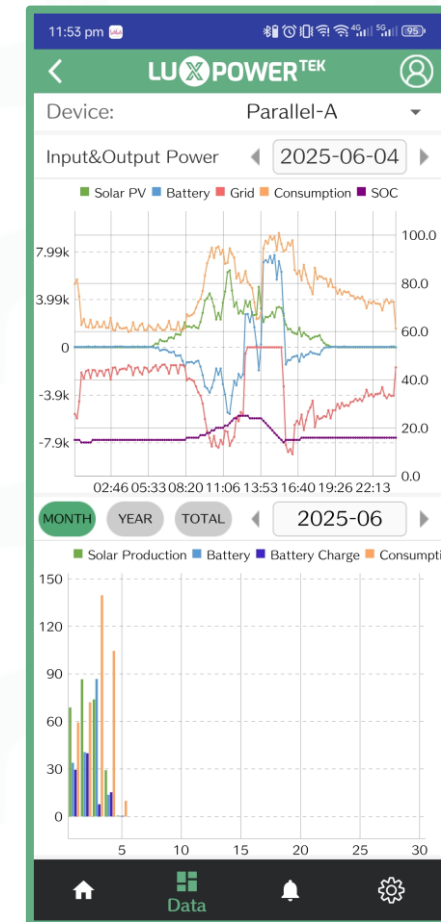
- **Status:** Showing the inverter's working status, when it's Warning or Error, click it will jump the page to event histroy page for quick checking.
- **Data Refresh:** Update the latest data of inverter's working status.
- **Quick Charge:** Start an hour of AC charge for the inverter currenty monitoring.

Smart Monitoring Platform update in 5mins



Real-Time Monitoring :

- Monitor the system's operational status and battery condition
- Customized Notifications for more protection
- Data history for working status record tracking



Smart Monitoring Platform

The screenshot shows the LUPOWER™ Smart Monitoring Platform interface. The top navigation bar includes tabs for Monitor, Data, Configuration, Overview, and Maintenance. The main content area is divided into two sections: a left sidebar with navigation options (Remote Set, Batch Set, Set Record, Remote Update, Firmware Beta Test, LCD Update, Battery Update, Update Record, Support) and a main panel. The main panel features a table of device status with columns for Serial number, Dongle, Firmware version, Connect Status, and Action. Below this, there is a section for Firmware File upload, including buttons for Choose file, Upload File, Upload BMS File, and Upload Standard. A table of firmware files is displayed, showing details like File name, Mode, Firmware, Start Time, Update Status, Rate of Progress, Stop Time, and Action. The bottom of the interface shows a status bar with 'Lithium Type' and '0: Standard Battery'.

Remote Control :

- Remote configuration to do the setting changes without visit the site
- Multi-working modes for various needs (like Self-consumption, PV charge first, AC charge and etc.)
- Firmware Update for bug fixing or new feature adding.

The screenshot shows a mobile application interface. At the top, there is a status bar with the time '1:06 am' and various icons. Below the status bar, there is a navigation bar with a back arrow and a 'CHANGE LOG' button. The main content area displays a list of device types, including 'SNA 3000-6000', 'CBAA-xx80xx_ComApp_ST_3.1.hex', 'CBAA-1Axxxx_250205.hex', 'cbaa-xx80xx_ComApp_GD_3.1.hex', 'cBAA-xxxx92_Dsp_250323.hex', 'cBAA-xx8Bxx_ComApp_ST_250323.hex', 'cBAA-30xxxx_MpptApp_250205.hex', and 'cBaa-xx8Cxx_ComApp_GD_250424.hex'. A 'DOWNLOAD' button is visible next to the 'SNA 3000-6000' entry. Below the list, there is a section titled 'Before switching to update page, please switch the network connection of your phone to' followed by a 'CONNECT DEVICE AND UPDATE' button.

Features

Multi Access:

Website :

<https://server.luxpowertek.com/WManage/web/login>

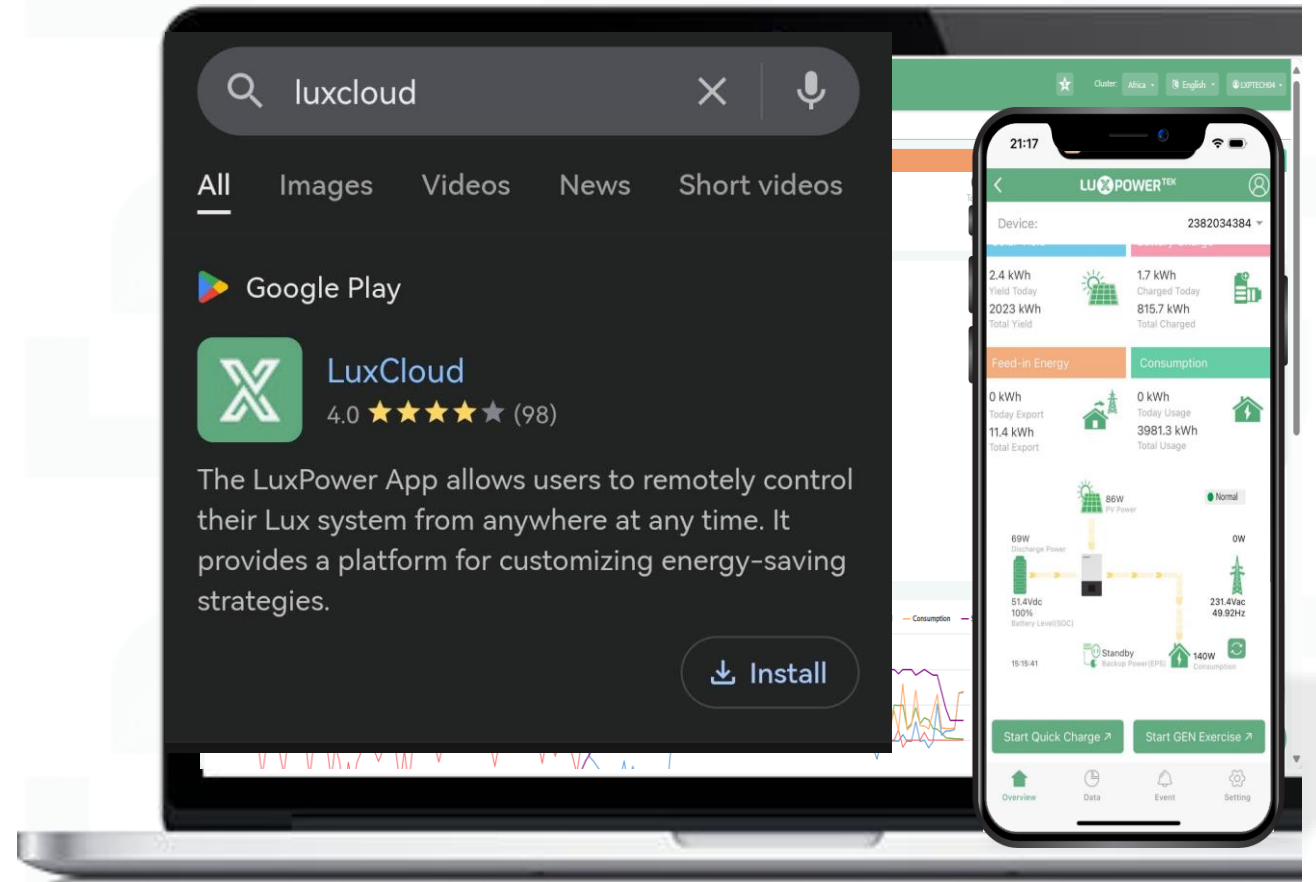
APP



Android in Google Play

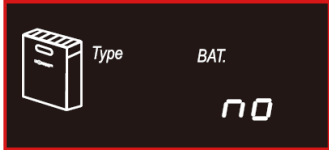
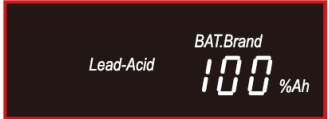
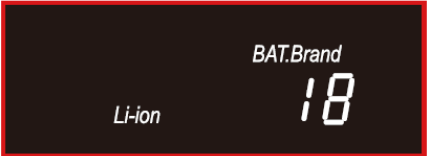


IOS in APPLE APP Store



Inverter Setting Introduction

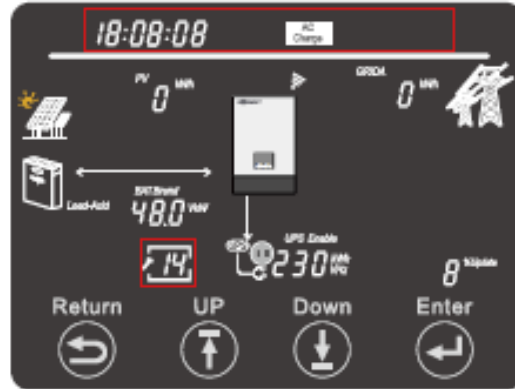
SNA 6KW Inverter BMS Communication

3	Battery	Run with No Battery: Step 1. Choose battery type first, when no flashing, select Enter to choose Run with No battery.	
		For Lead Acid: Step 1. Choose battery type first, when Lead-Acid flashing, select Enter to choose Lead-acid battery. Step 2. Then choose battery capacity.	 
		For Lithium battery: Step 1. Choose battery type first, when Li-ion flashing, select Enter to choose Li-ion battery Step 2. Choose battery brand. 0- > Standard Battery 2->Pylon Battery 6->Luxpower protocol Battery	 

Inverter Setting Introduction

SNA 6KW Inverter Charging Setting

AC charge setting
(The setting process must enable the AC charging function, confirm the full battery SOC value, and set the confirmation time period 1, 2, 3 to truly complete the AC charging function setting)



AC Charge function:
Setting range:
1. DIS: AC charge disable;
2. TIM: According to time;
3. VOL: According to battery voltage;
4. SOC: According to battery soc;
(Touch "Enter" button to set ac charge parameter)

ACCh: d15

14

AC charge control:
Setting range:
Vol:

1. Start Voltage: 35.4~52V;
 2. End Voltage: 48~59V;
- SOC:
1. Start Soc: 1~90%;
 2. End Soc: 20~100%;

ACCh: VOL start AC Charge

2.0V

BAT 15%

Setting AC Charge time of 1 start:
Range: 00:00~23:59
Default: 00:00~00:00

P1:00:00 start AC Charge

Setting AC Charge time of 1 end:
Range: 00:00~23:59
Default: 00:00~00:00

P1:23:59 end AC Charge

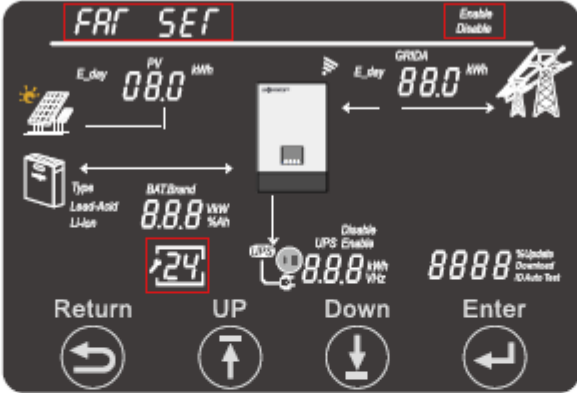
Similar to set time2 and times

P2:00:00 start AC Charge

P3:00:00 start AC Charge

Inverter Setting Introduction

SNA 6KW Inverter Fan Speed Setting

24	Fan speed setting	 Fan1 Speed Percent Setting Range: 20-100% 70% (default) FAN : 055 Fan1 Speed New Slope Setting Range: Disable (default) Enable FAN SL OP Enable Disable Fan2 Speed Percent Setting Range: 20-100% 70% (default) FAN : 055 Fan1 Speed New Slope Setting Range: Disable (default) Enable FAN SL OP Enable Disable
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Fan 1 Max Speed(%) (?)

[10, 100]

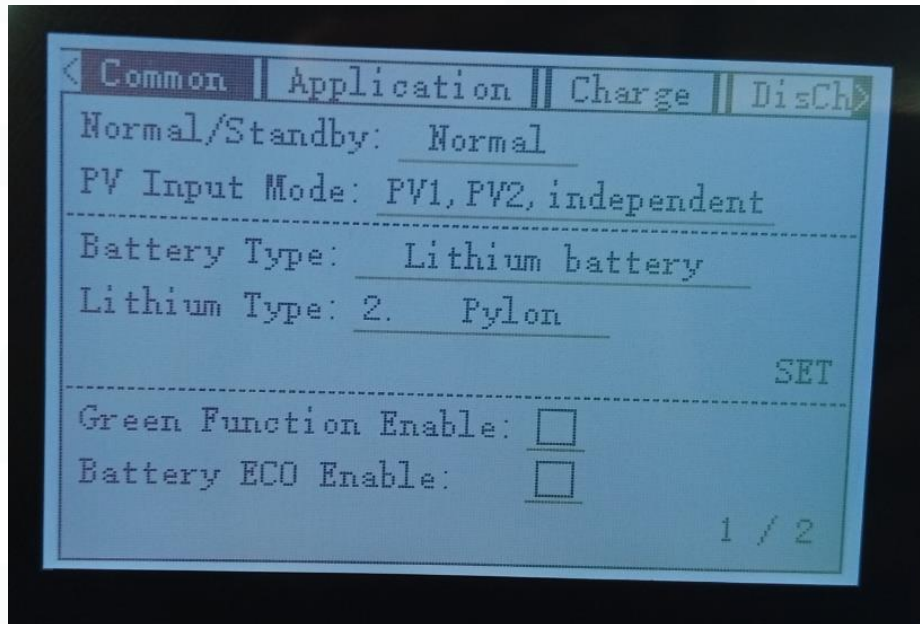
Set

Fan 2 Max Speed(%) (?)

[10, 100]

Set

SNA 12W Inverter BMS Communication Setting



- 0: Standard Battery
- 1: HINA Battery
- 2: Pylon/Freedom Won/Solar MD/Hubble/Blue Nova
- 3: Enopte
- 4: MSUN
- 5: GSL1 Battery
- 6: Lux
- 7: Aobo Battery
- 8: Rsvd/ Dyness
- 9: Stealth
- 10: TeLongMei
- 11: Merit
- 14: WECO
- 15: Murata
- 16: BITEK
- 17: OKSolar
- 18: GW Battery
- 19: CROWN
- 20: Revov
- 21: Beebeejump

SNA 12KW Charging Setting

< Common || Application || Charge || DisCh >

AC Chg Based On: According to time

AC Charge Battery Current: 3A

AC Charge Time:

P1 Start: 00:00 End: 00:00

P2 Start: 00:00 End: 00:00

P3 Start: 00:00 End: 00:00

2 / 3

< Charge || DisCharge || Other || Basic >

CT Power Offset: 20W

Fan1 Slope: ☒ Fan1 Max Speed: 70%

Fan2 Slope: ☒ Fan2 Max Speed: 70%

Fan4 Slope: ☒ Fan4 Max Speed: 70%

Fan5 Slope: ☒ Fan5 Max Speed: 70%

Fan 1 Max Speed(%) (?)

[10, 100]

Set

Fan 2 Max Speed(%) (?)

[10, 100]

Set

Internal Functions

Battery ECO Enable (?)

If enable:

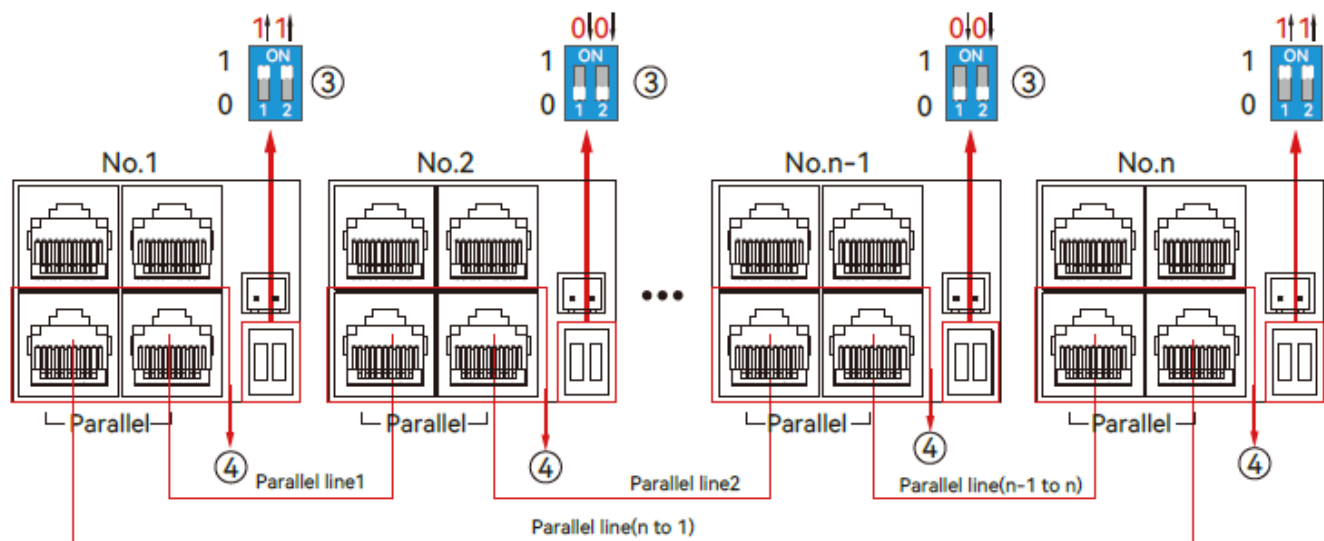
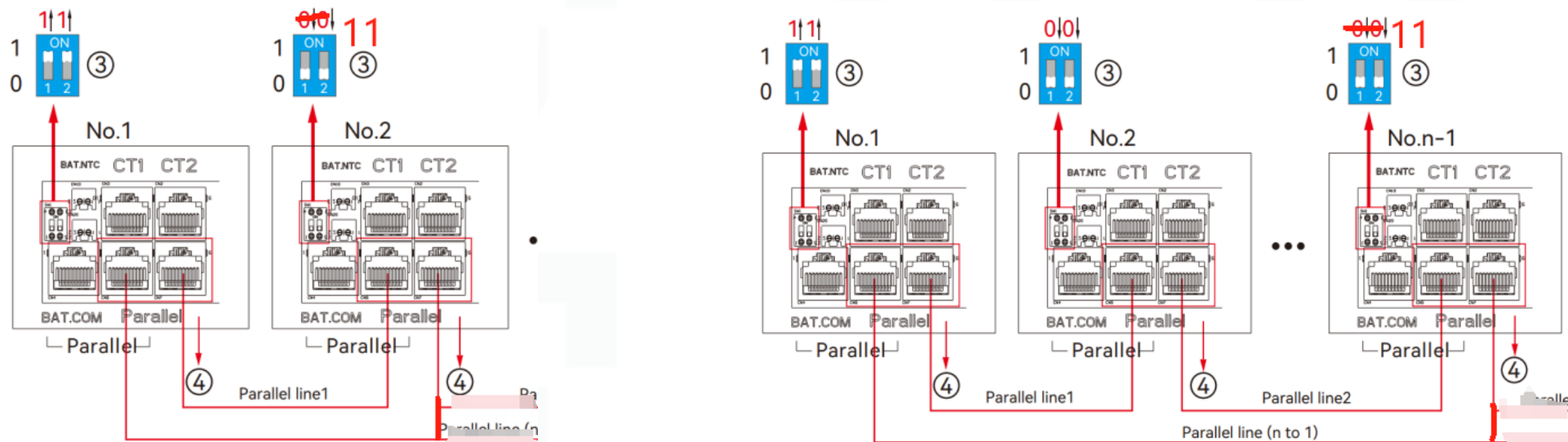
1: When battery reaching on grid EOD value & AC charge disabled, the inverter will switch to bypass mode until battery is being charged again.

2: Switch time can go up to 15ms.

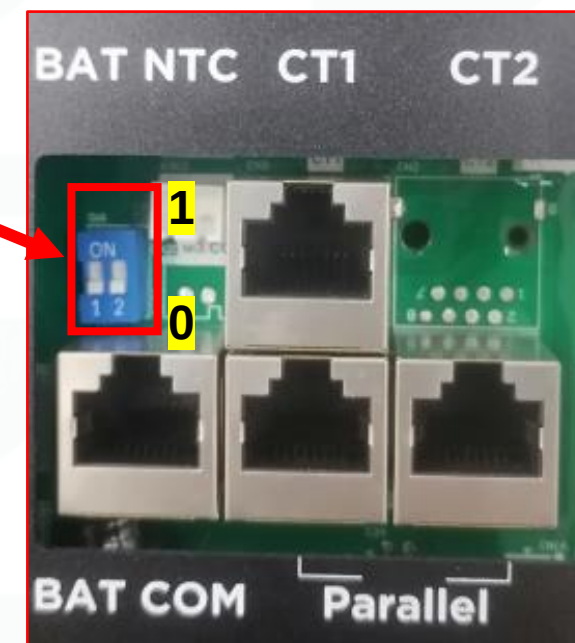
Green Function Enable (?)

When green function is enabled, if the EPS load reading is lower than 60W for more than 10 min, the EPS output will be cut off

Inverters in Parallel System (2, 3, 4, up to 18 pcs)



The max parallel quantity is 18, so $2 \leq n \leq 18$



LUX POWER^{TEK}



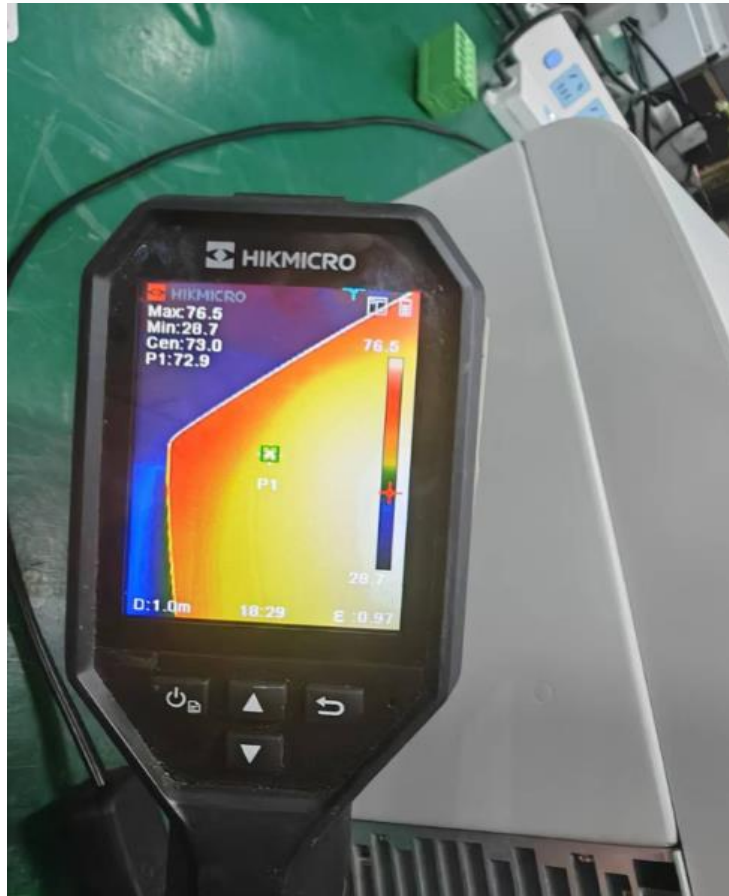
PART 4 COMPARISON Luxpower VS Other Brands

6K Test Performance Luxpower VS Other Brand

25 °C Room temperature	Other Brand 6K (Max PV -12kW)	SNA01-6KW (Max PV - 9.6kW)
AC charge	AC power is 5600W and charger current maximum 112A (box temperature 75°C)	Max 140A
PV charge	Max 133A	Max 140A
PV charge+back up load	11500W PV+5KW back up load, shut down in 5 mins (charger and back up load together)	Remain max 9600W PV+6600W Works normal
PV charge+back up load	10800W/115A PV + 5KW back up load, works normal for 1 hour test box temperature up to 78°C	Remain max 9600W PV+6600W Works normal Box temperature maximum <55°C
Overload Capability		
PV charger+back up load	Back up load 6260W 30s overload	6600W always
PV charger+back up load	Back up 5980W 5 minutes overload	6600W always
PV charger+back up load	Back up 5500W works normal	6600W always

Luxpower VS Other Brand 6K Test Performance

Box temperature at 25°C room temperature



BOX Temperature up to 78°C



LuxpowerTek BOX Temperature <45°C

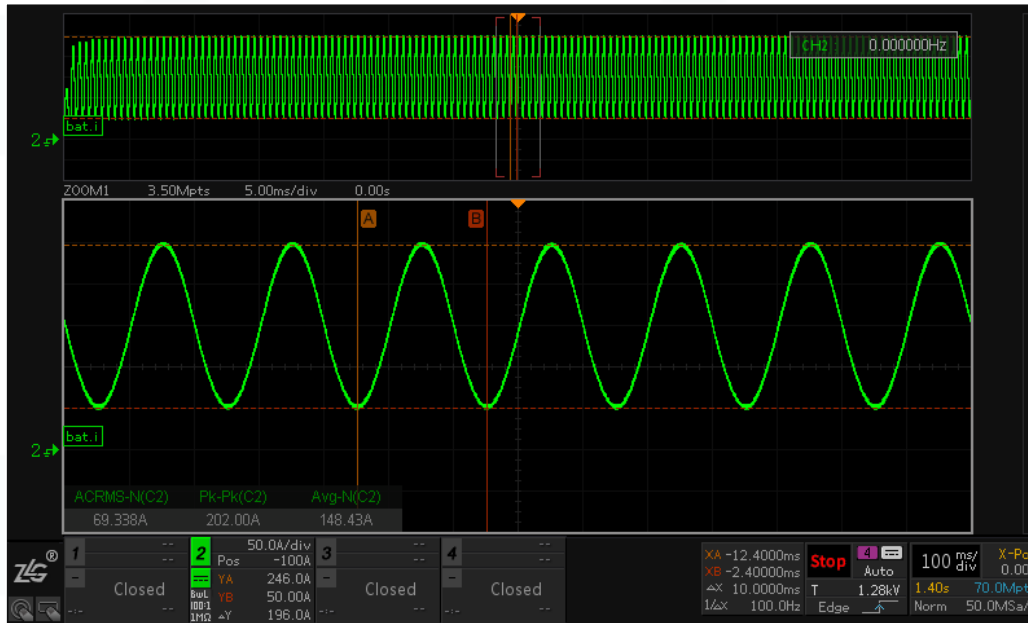
1. Other Brand box has a **risk of hand burns**.
2. **Sensitive components worse lifetime and efficiency**, like Electrolytic Capacitors, IGBTs / MOSFETs, Transformers and Inductors, MCU, DSP, Driver ICs, Optocouplers, voltage regulators, EEPROM/Flash memory, and fans.
3. **Overall Effects of >70°C Internal Temperature**
 - **Shortened lifespan**, especially electrolytic capacitors and semiconductors.
 - **Efficiency drop** due to higher losses in power devices.
 - **More frequent protection triggers**.
 - **Potential failure**: board damage, circuit breakdown.

6K Test Performance Luxpower VS Other Brand

45°C room temperature	Other Brand 6KW	SNA-6KW
PV 340V 21A CHARGE 7000W	PV charge 130A/6240W works normal	9.6kW PV charge including 140A charger +back up load 6600W always
PV CHARGE 5500W+ back up load 6000W	After 10 mins, PV CHARGE 2500W+ back up load 5600W	Remain 9.6KW/140A PV charge +6.6KW back up load
AC CHARGE 6000W	After 30min AC charge 5280W/110A with some <u>ripple wave</u>	Remain 9KW AC INPUT, with 6000W load
Back up output 6000W	After 1.5 hours, back up decrease to 5660W	back up remains up to 6600W

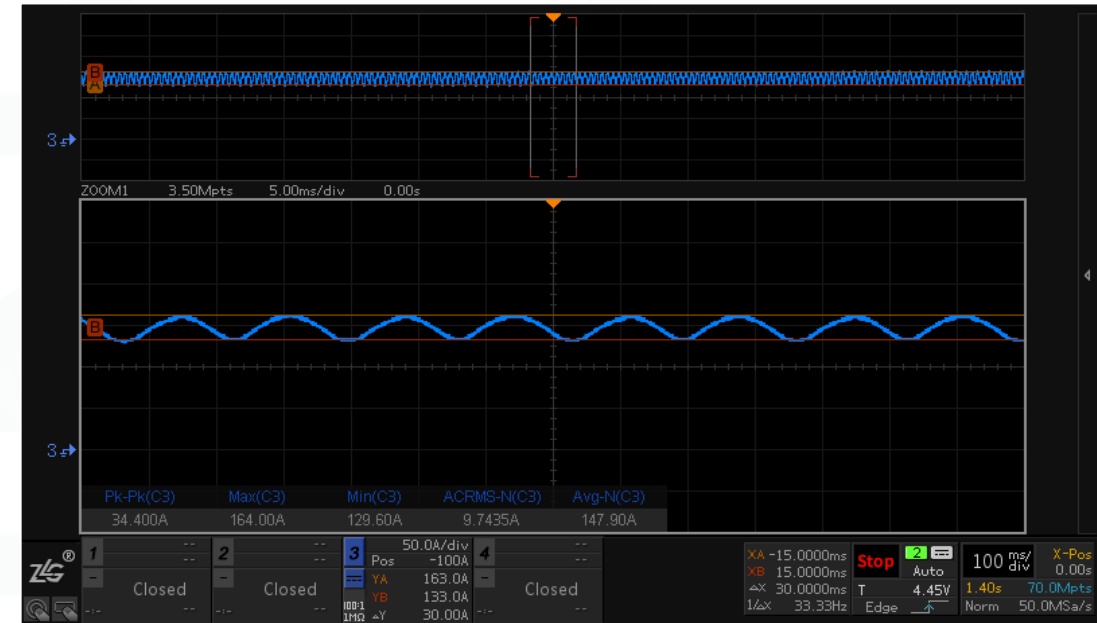
Luxpower VS Other Brand 6K Test Performance

200Ah Battery ripple current sinewave form on Digital Oscilloscope



Most Budget Inverters **do not include** Extra Buck-Boost Circuit for Charging Part

- Can accelerate aging
- Reduce cycle life
- Slightly increase risk of lithium plating
- Estimated lifetime drops to ~5-6 years (~ 50%).

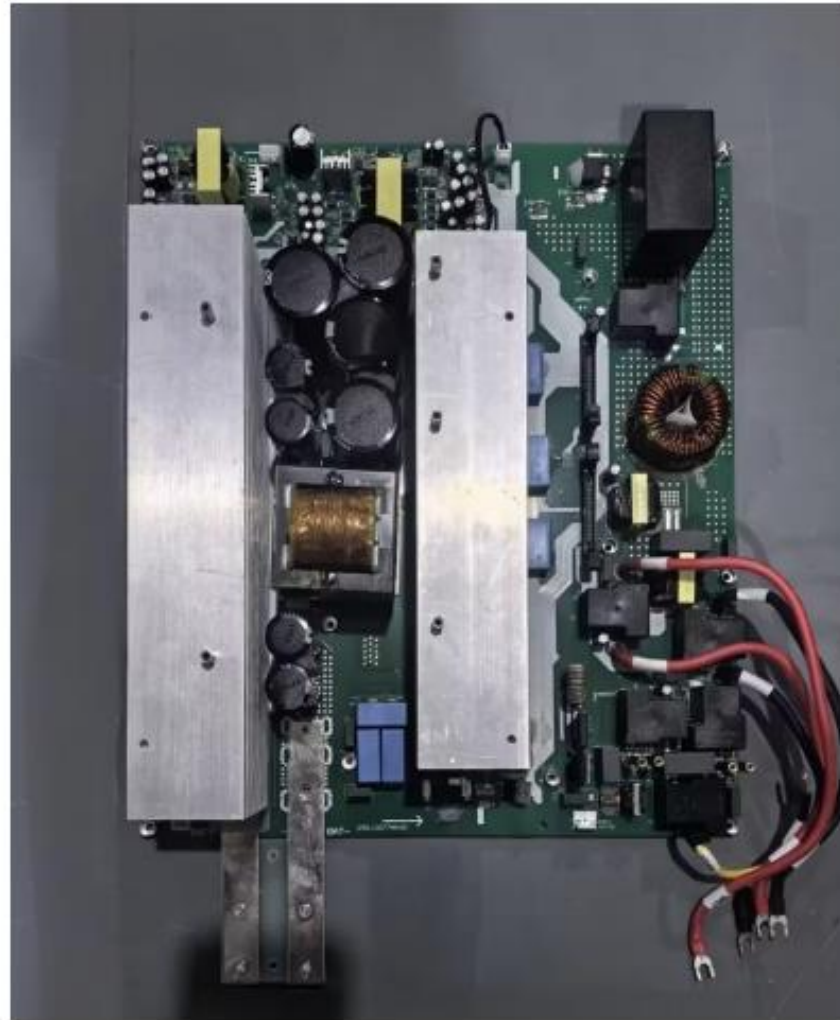


Luxpower Inverters with **Extra Buck-Boost Circuit** for Charging Part

Can moderate safe limits, resulting in minimal lifetime reduction ($\approx 9-10$ years) ($\sim 80-90\%$).

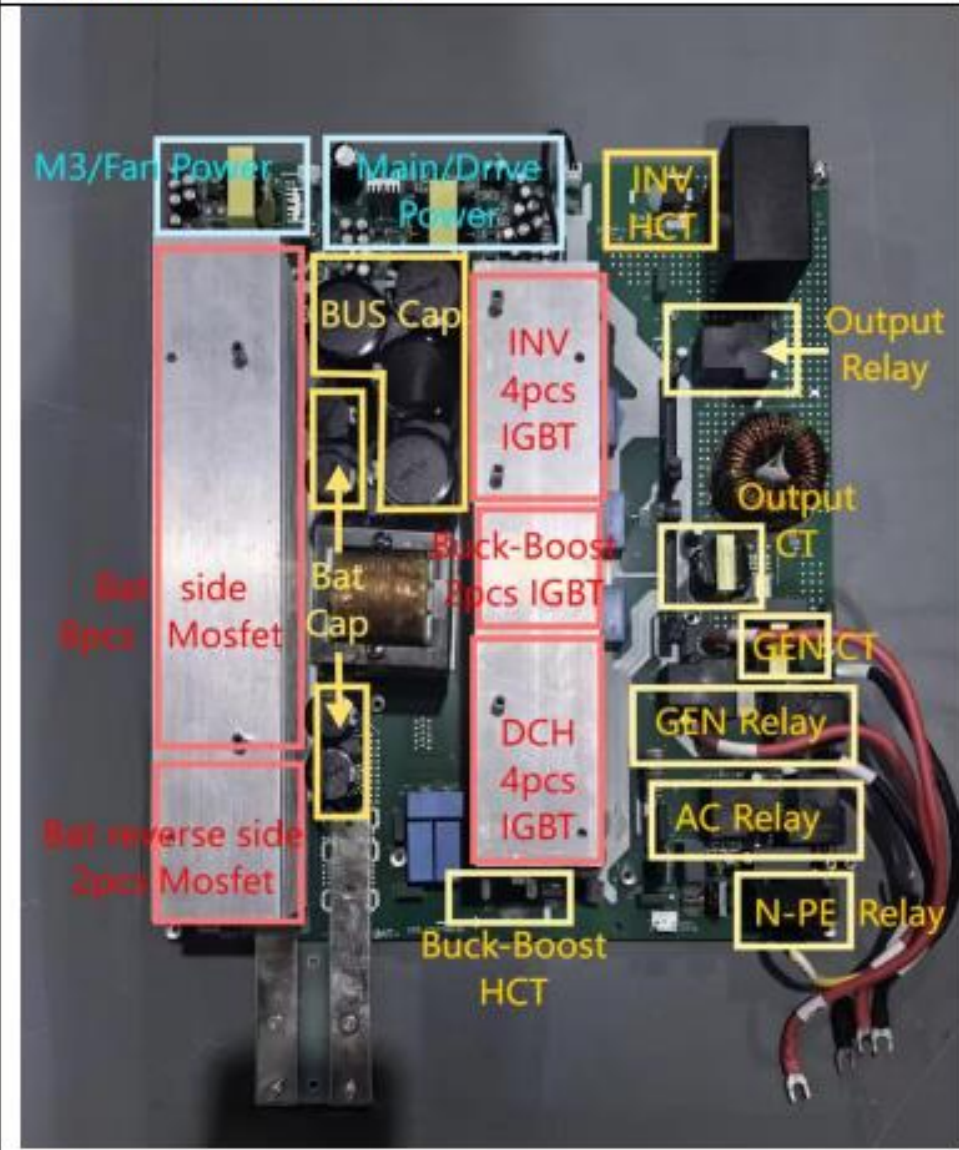
Luxpower 6K Main Board

Main board

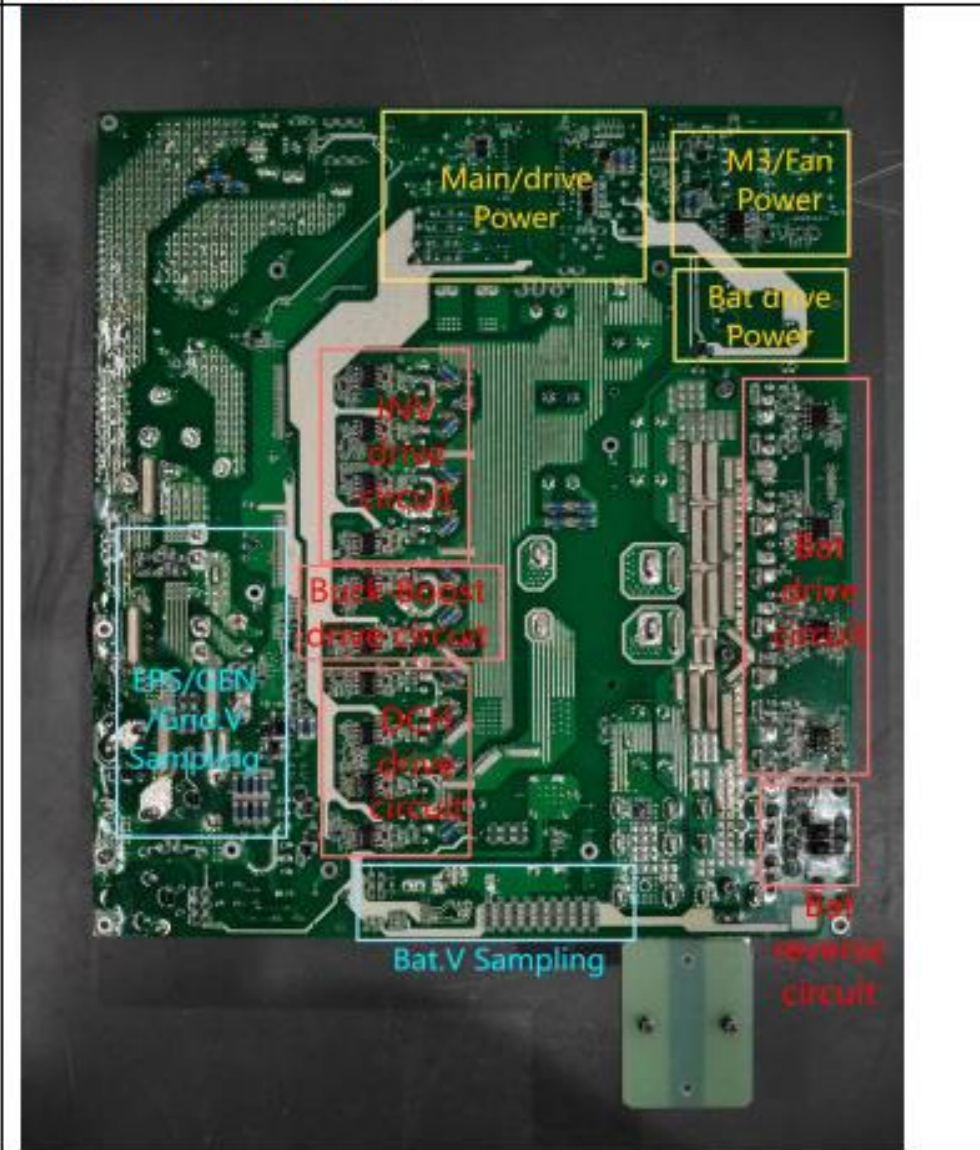


Luxpower 6K Main Board

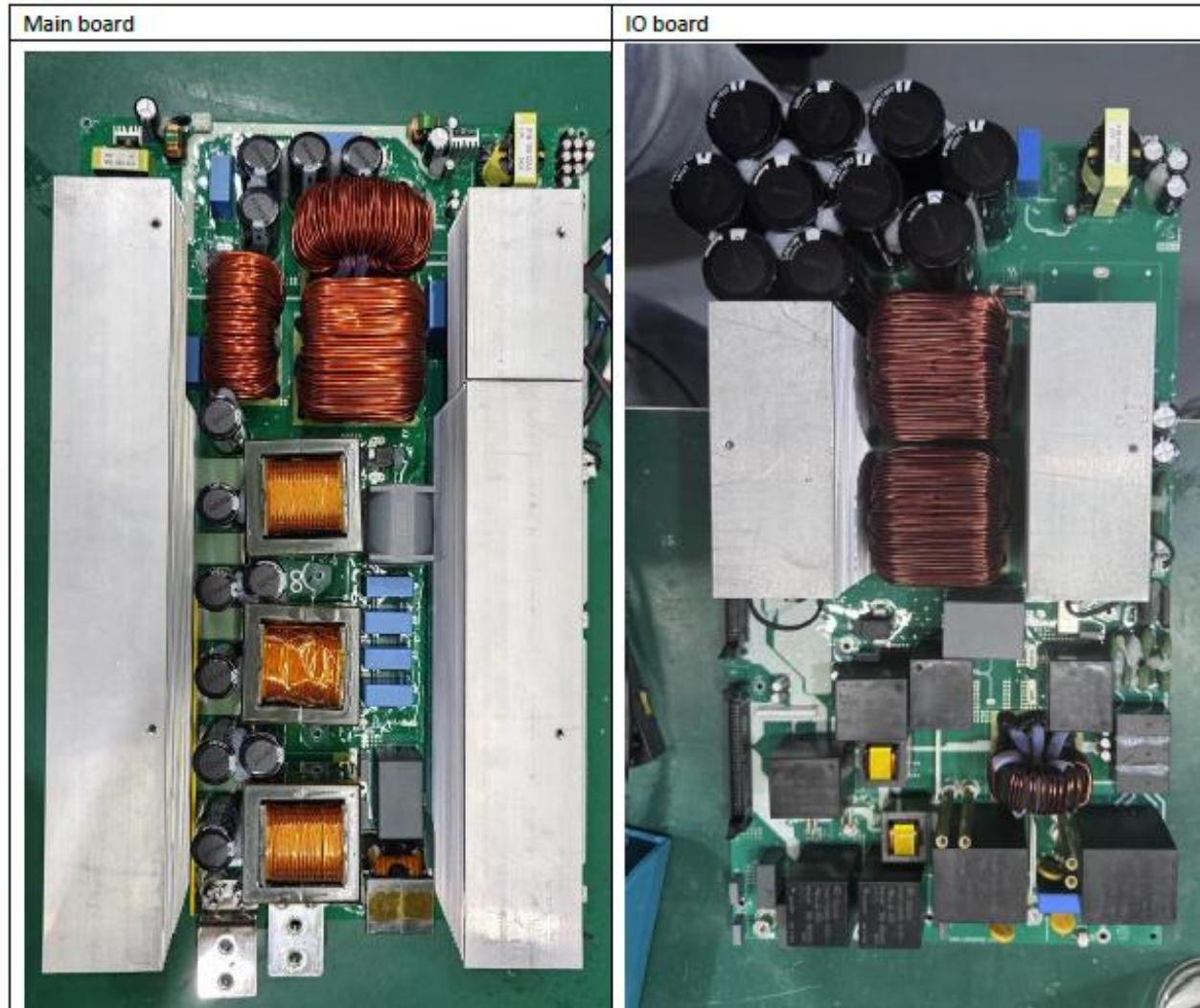
Main Board-Front view



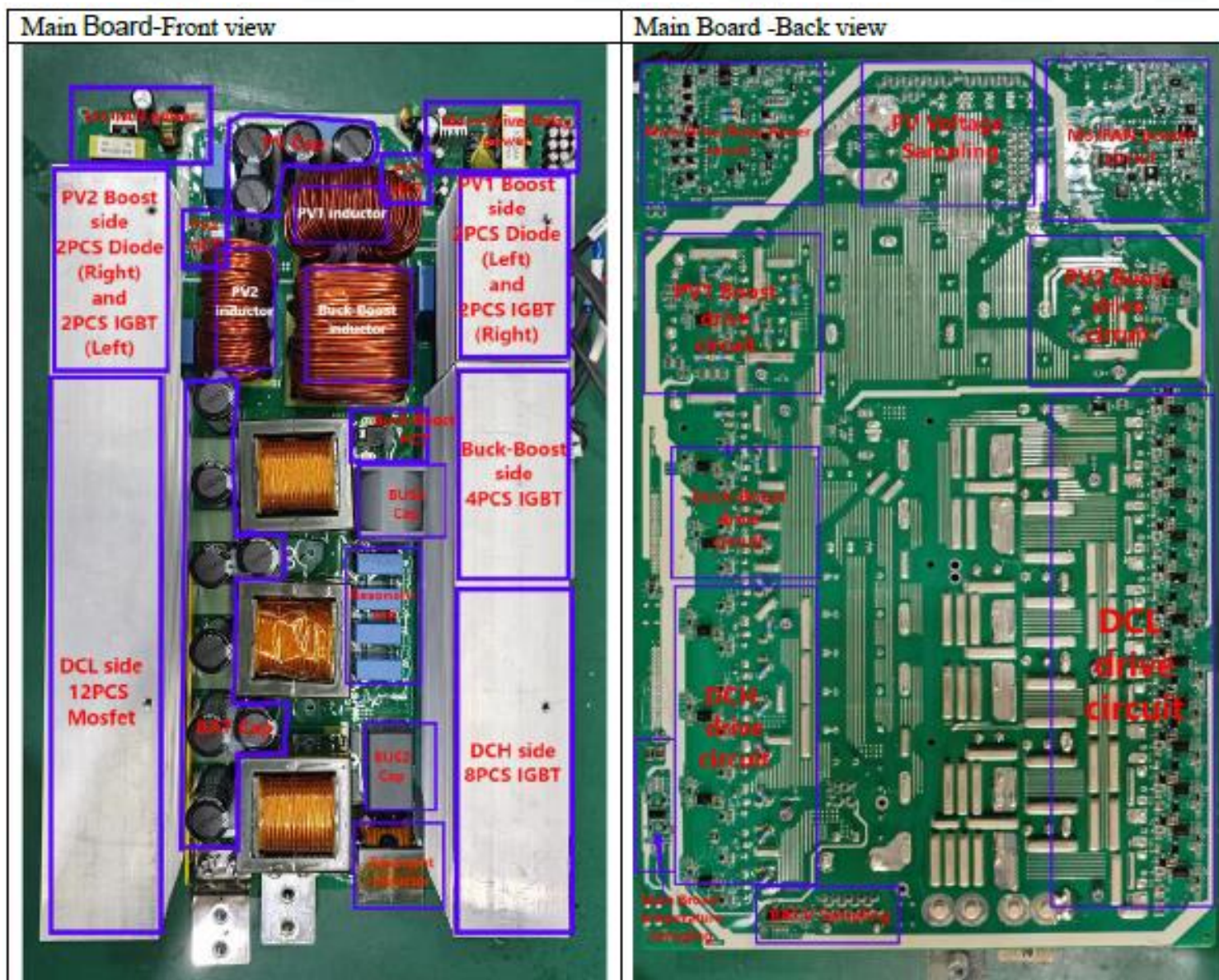
Main Board -Back view



Luxpower 12K Maib Board & IO Board



Luxpower 12K Main Board



6K Specs Luxpower VS Other Brand 6K

Item	Other Brand 6K	Luxpower SNA 6K	Remark
Inverter can work with or without battery	not been claimed	YES	
Auto Wake Up Battery	not been claimed	YES	PV or AC wakeup battery automatically, timely charge battery
Max. PV input power (W)	9600	9600	
Rated Power	6000	6000	
Max Parallel	16 units	18 units	
Overload Capability	Maximum 7200W(<30s)	Maximum 12000W (<5S)	For conditioner start up inrush current
Inverter Start-up PV Voltage (V)	125	100	Lower start up voltage
MPPT voltage range (V)	150-425	120-385	
Max. charging/discharging current (A)	135A	140A	
Max PV Input Current	18A	17A	
Max. PV short-circuit current input per MPPT(A)	27A	25A	
Number of MPPT/Strings	2	2	
Rated AC passthrough(grid to load) current(A)	35A	40A	Support bypass function

6K Specs Luxpower VS Other Brand

Item	Other Brand 6K	Luxpower SNA 6K	Remark
Operating Temperature Range (°C)	(-40 to +60°C, >45°C Derating), the actual operating temperature is 78°C	0~50 °C	Other Brand 6K shell top very hot with safety risk.
Fault Restart	not been claimed	Auto	Auto restart, smart & convenient
NOISE	<55DB have low noise/normal noise choice	<50DB Fan speed control based on temperature	Can adjust
Auto generator control(remote start Gen)	not mention	YES	
Remote Update Battery	NO	YES	with Luxpower battery
Remote start	not mention	YES	
AC coupling function	YES	YES	For generator input
Smart load	NO	YES	For solar inverter input or smart load output
Ingress protection	IP65	IP20	not real IP65 for terminal ports
warranty	5 year	2 year	
Weight	12.2KG	15KG (Stainless steel housing)	Other Brand is lighter but has some problem on heat dissipation

6K Specs Luxpower VS Other Brand 6K

Model	Other Brand 6K	Luxpower SNA 6K	Remark
Max. PV input power (W)	8000	9600	Eg: For 580W panel, Other Brand- 13pcs, Luxpower 16pcs
Max. PV input current Imp(A)	16	17	
Max. PV charge/discharge current (A)	100A (Max 5120W)	140/140(Max 7168W)	Charge faster when battery low voltage, or parallel
Max. AC charge/discharge current (A)	80A (Max 4096W)	140/140(Max 7168W)	Charge faster when battery low voltage, or parallel
On-off grid switch time	10ms-20ms@single 30ms@parallel	7ms@single 20ms@parallel	Seamless switch, no need extra UPS for computer for single inverter
Max. AC input power(W)	9000	9000	
Max. continuous AC passthrough current (A)	40	40	
Support export power to grid	No	Yes	Eco hybrid, can sell power to grid if grid allows
Rated GEN input power (W)	Not Claimed	7370	
IP rating	IP 20	IP20	
Max Parallel units	6	18	
Noise	Some users report noise	<50DB Fan speed control based on temperature	

12K Specs Luxpower VS Other Brand 12kW

Model	Luxpower SNA EU 12K	Other Brand 12kW	Remark
Max. PV input power (W)	24000	15000	More panels installed
PV input voltage range (V)	100-480	60-480	
MPPT/String number	2/4	2/2	Allows flexible layouts, better shadow tolerance, higher system efficiency
Max. PV input current (A)	35	27	
Isc for each string (A)	44	/	
Max. charge/discharge current (A)	250	250/280	
AC Input Vol Range	90-280V	90-280V	
Max. AC input power(W)	24000	12000	
Max. continuous AC passthrough current (A)	100	/	
Rated GEN input power (W)	15000	/	
IP rating	IP20	IP20	
Max Parallel units	16	6	
Support export power to grid	Yes	Yes	☑ Eco hybrid, can sell power to grid if grid allows

Any Questions ?

THANK YOU !



Online Survey



Luxpower Facebook Page

