

SNA PRO-EU 3-6.5K Product Introduction

Efficient | Stable | Flexible Parallel Connection | Suitable for Multiple Application Scenarios



CONTENTS

- 01** Product Overview
- 02** Product Highlights
- 03** Technical Detail
- 04** Summary

01 Product Overview



New-Generation

SNA PRO-EU 3-6.5K

Off-Grid Inverter with Hybrid Function



IP65



5 years Warranty



SPD: Type II



PV isolation Switch

	IP20	 IP Rating	IP65	
	2 Years	 Warranty	5 Years	
SNA 3-6K	Type III	 SPD*	Type II	SNA PRO-EU 3-6.5K

SPD*: AC/DC Surge Protection Device

Protection Upgraded

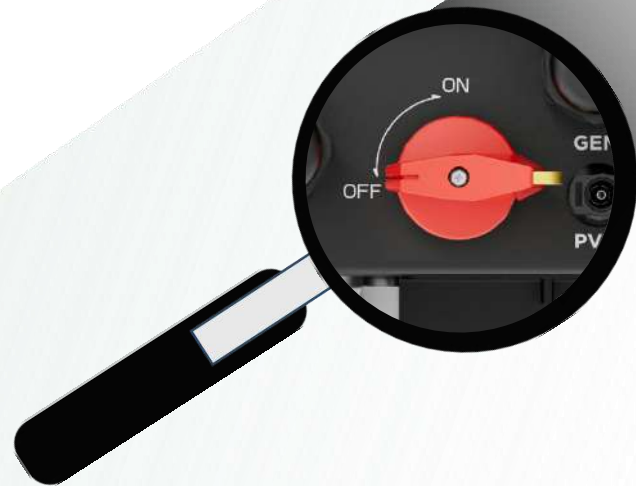
Usability Upgrade

Parameter Upgrade

Support Market



SNA PRO-EU 3-6.5K



New



Added PV Isolation Switch

Protection Upgraded

Usability Upgrade

Parameter Upgrade

Support Market

New Ports Wiring Upgrade

SNA PRO-EU
3-6.5K

Other Ports

PV Ports Wiring



Added Waterproof
for Ports



Quick-Connect
Wiring for PV Ports



Traditional Ports



Traditional Wiring



SNA 3-6K

Protection Upgraded

Usability Upgrade

Parameter Upgrade

Support Market

New

LCD Upgrade

Segment → Dot Matrix

- Effortless Settings Adjustment
- Clear Visualized Data Display

Build-in WIFI Dongle

- External WIFI dongle is not needed



Protection Upgraded

Usability Upgrade

Parameter Upgrade

Support Market



New



Generator-Powered Battery Wake-Up

SNA 3-6K



SNA PRO-EU 3-6.5K

PV

120~385V  **80-400_V**

MPPT voltage range (V)

9.6kW  **12kW**

Max. PV input power (kW)

Grid

6000W  **6500_W**

Max Rated AC output power (W)

EPS

Update to **5_{HP}**

Load Capacity of Motor

Efficiency

93.0%  **94.0%**

Max. efficiency

Upgrade

Parameter Upgrade

Support Market

Application Scenarios

European

Middle East

Africa, Asia



Ability Upgrade

Parameter Upgrade

Support Market

Application Scenarios



Residential Homes

Ensure uninterrupted power supply during outages



Small Shops & Offices

Support critical loads with stable AC output



Remote Areas / Farms

Ideal for regions with weak or no grid access



Hybrid System Retrofit

Works with existing Grid-tied solar system

02 **Product Highlights**



Reliable **Protection** for Peace of Mind

PV Isolation Switch

Independent PV Line Cut off

- Quickly cut off high-power PV input during maintenance/accidents
- Lower electric shock risks from high-power PV circuits

Type II Surge Protection

High Surge Protection

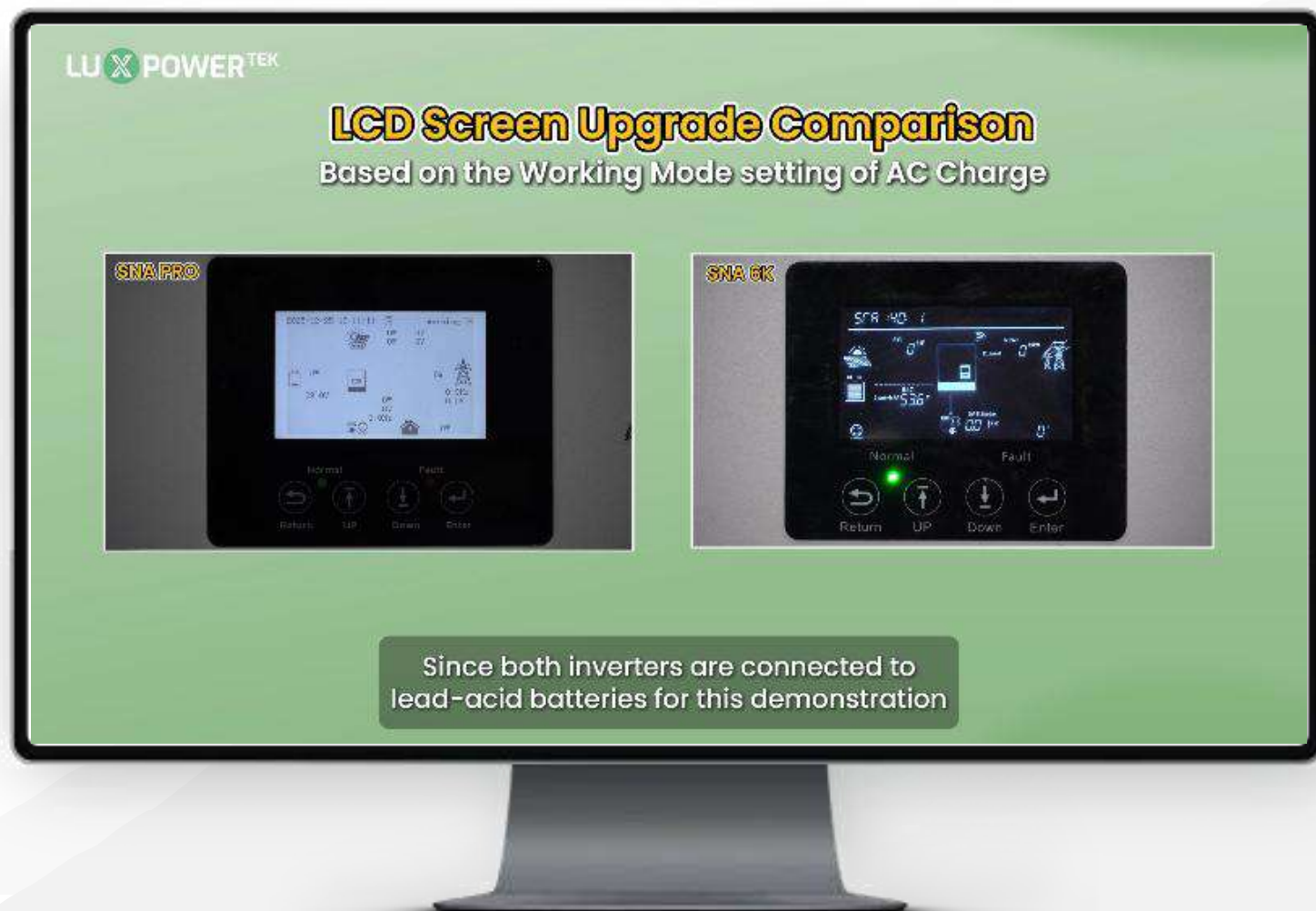
- Effectively shielding the system from lightning damage

GFCI Detection

Ground Fault Protection

- GFCI protection for ground-fault detection and user safety.

Comprehensive Simplification of the LCD Screen



01

02

03

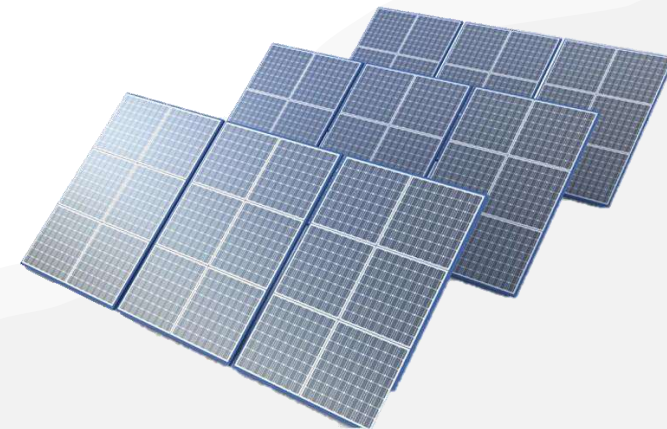
04

05

06

PV Input Highlight

PV Input Compatibility for Wider Application Scenarios

**2(1/1)**

MPPTs

80~400V

PerMPPT voltage range (V)

12000(6000/6000)W

Max. PV input power (W)

15000(7500/7500)W

Max. PV array power (W)



Reliable & Stable Power Supply

6500W

Max Rated AC output power (W)

<10ms

Grid-tie/Off-Grid Switching Time

Overload Capacity:

5s for 150%~200%

Overload Duration (≈9750~13000W)

10s for 110%~150%

Overload Duration (≈7150~9750W)

01

02

03

04

05

06

Installation Adaptability Highlight

Meet Your Clients' Diverse Requirements

IP65

Ingress protection rating

40dB

Noise Emission

4000m(>2000m Power derating)

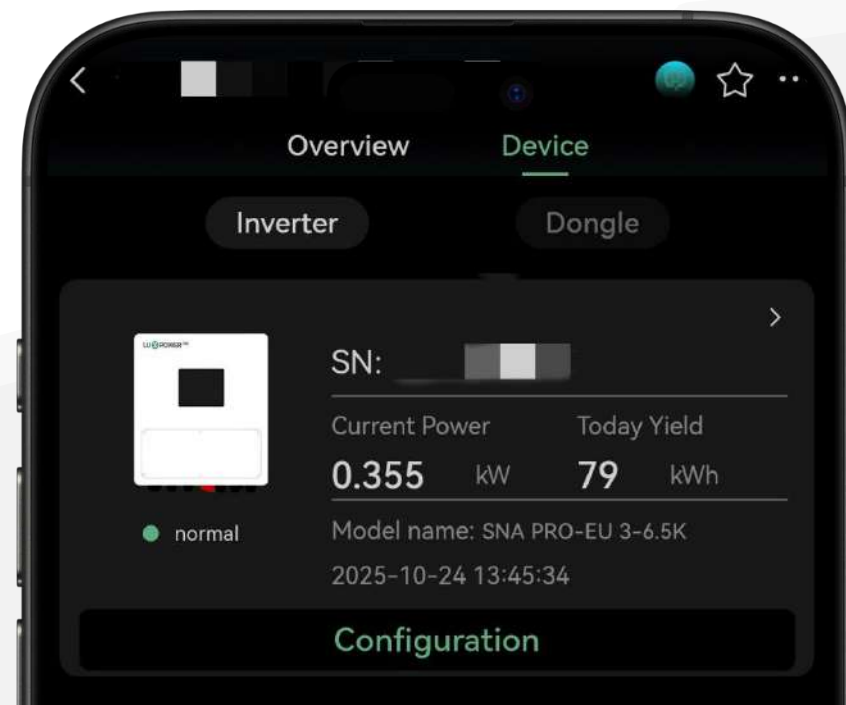
Max. Operating Altitude (m)



Built-in Dongle, easier connection to LuxCloud

LU X POWER^{TEK}

- 1. Not connected to the
- 2. Connected to the dongle, but the dongle is not connected to WiFi. (No cloud/ inverter connection)
- 3. Dongle connected to WiFi, but not connected to cloud server. (No inverter connection)
- 4. Dongle connected to WiFi and cloud server, but no communication with inverter
- 5. All connections are OK



- 1) Not connected to the dongle.
- 2) Connected to the dongle, but the dongle is not connected to WiFi. (No cloud/inverter connection)
- 3) Dongle connected to WiFi, but not connected to cloud server. (No inverter connection)
- 4) Dongle connected to WiFi and cloud server, but no communication with inverter.
- 5) All connections OK.

03 Technical Details

Datasheet

Parameter Comparison

Product Showcase

Wiring Diagram

Parallel Function

Generator Port Function

Compatible Battery

Model	SNA PRO-EU 3K	SNA PRO-EU 4K	SNA PRO-EU 5K	SNA PRO-EU 6K	SNA PRO-EU 6.5K
Input (PV DC)					
Max. PV array power (W)	7500(3750/3750)	10000(5000/5000)	15000(7500/7500)		
Max. PV input power (W)	6000(3000/3000)	8000(4000/4000)	12000(6000/6000)		
Number of independent MPPT inputs	2				
Max. PV input voltage (V)	500				
MPPT voltage range (V)	80 ~ 400				
Start-up voltage (V)	100				
Max. PV input current per MPPT (A)	40 (20 / 20)				
Max. PV short-circuit current input per MPPT (A)	50 (25 / 25)				
Battery					
Compatible battery type	Lithium-ion / Lead-Acid				
Rated battery voltage (V)	48				
Battery voltage range (V)	40 ~ 60				
Max. charging/discharging current (A)	70	90	110	135 / 140	135 / 140
Max. charging/discharging power (W)	3000	4000	5000	6000	6500
Force wake up battery from PV function	YES				
Force wake up battery from Grid function	YES				
Force wake up battery from GEN fuction	YES				
Grid					
Rated AC voltage (V)	230				
Rated AC frequency (Hz)	50 / 60				
Rated AC output current (A)	13	17.5	22	26.5	28.2
Rated AC output power (W)	3000	4000	5000	6000	6500
Max. AC input power (W)	6000	8000	8000	9000	9000
PF	0.99				
THDI	< 5%				
Max. continuous AC passthrough current (A)	40				60
GEN					
Rated GEN voltage (V)	230				
Rated GEN frequency (Hz)	50 / 60				
Rated GEN input current (A)	13	32			
Rated GEN input power (W)	3000	7370			
UPS					
Rated output power (W)	3000	4000	5000	6000	6500
Rated output voltage (V)	230 / 120	230			
Rated output current (A)	13	17.5	22	26.5	28.2
Rated output frequency (Hz)	50 / 60				
Surge power, duration	6000W, 5s	8000W, 5s	10000W, 5s	12000W, 5s	13000W, 5s
Switching time	< 10ms @ Single; < 20ms @ Parallel				
Wave form	Sine wave				
Load Capacity of Motor	3HP		4HP	5HP	
OverLoad Capacity	10s@110% ~ 150 % load; 5s@150% ~ 200% load				
THDV	3%				

Datasheet

Parameter Comparison

Product Showcase

Wiring Diagram

Parallel Function

Generator Port Function

Compatible Battery

Model	SNA PRO-EU 3K	SNA PRO-EU 4K	SNA PRO-EU 5K	SNA PRO-EU 6K	SNA PRO-EU 6.5K
Efficiency					
MPPT efficiency	99.0%				
Max. efficiency	94.0%				
Max. charge efficiency	94.0 %	93.0%		94.0 %	
Max. discharge efficiency	93.0%				
Protection					
PV reverse polarity protection	YES				
Over current/voltage protection	YES				
Anti-islanding protection	YES				
AC Short-circuit current protection	YES				
Grid monitoring	YES				
Ground fault monitoring	YES				
AC/DC surge protection	Type II				
Leakage current protection	Optional				
DC switch	Optional				
Rapid shut down	Optional				
AFCI protection	Optional				
General					
Dimensions (W × H × D)	434 × 384 × 187 mm / 17.09 × 15.12 × 7.36 in				
Weight	16.95 kg / 37.38 lbs				
Ingress protection rating	IP65				
Operating environment temperature range (°C)	-25 ~ 60, >45°C derating				
Storage temperature range (°C)	-15 ~ 60				
Relative humidity	5% ~ 95%				
Display & Communication interface	LCD + LED, RS485 / Wi-Fi / CAN				
Warranty	5 years				
Cooling method	Smart Cooling				
Topology on AC side	Transformerless				
Topology on Battery side	Transformer				
Max. Operating Altitude (m)	4000, >2000 Power derating				
Noise emission (dB)	40				
Standards & Certification					

Datasheet

Parameter Comparison

Product Showcase

Wiring Diagram

Parallel Function

Generator Port Function

Compatible Battery

LU  POWER^{TEK}





Brand

LuxpowerTek

Deye

ALPSOLARR

Model

SNA PRO-EU 6.5K

SUN-6K-OG01LP1-EU-AM2E

PULSE S3 6kW

Rated Power(kW)

6.5kW

6kW

6kW

MPPT voltage range(V)

80~400V

150~425V

60~450V

Start-up Voltage(V)

100V

125V

-

Independent GEN Port

Integrated GEN Power Generation, Smart Load & AC Coupling

Only independent GEN Port

-

Number of parallel connections supported

16

16

6

WIFI module

Build-in WIFI dongle 

External

External

Product Showcase

Datasheet

Parameter Comparison

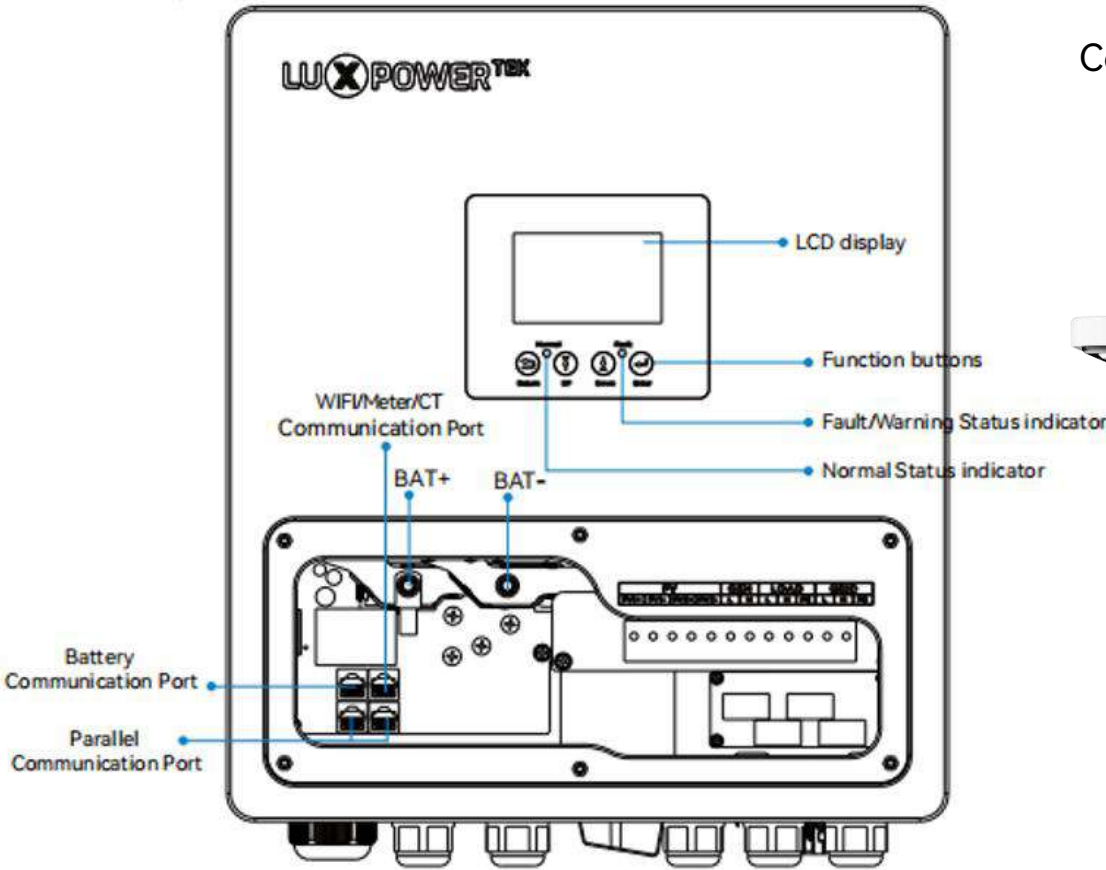
Product Showcase

Wiring Diagram

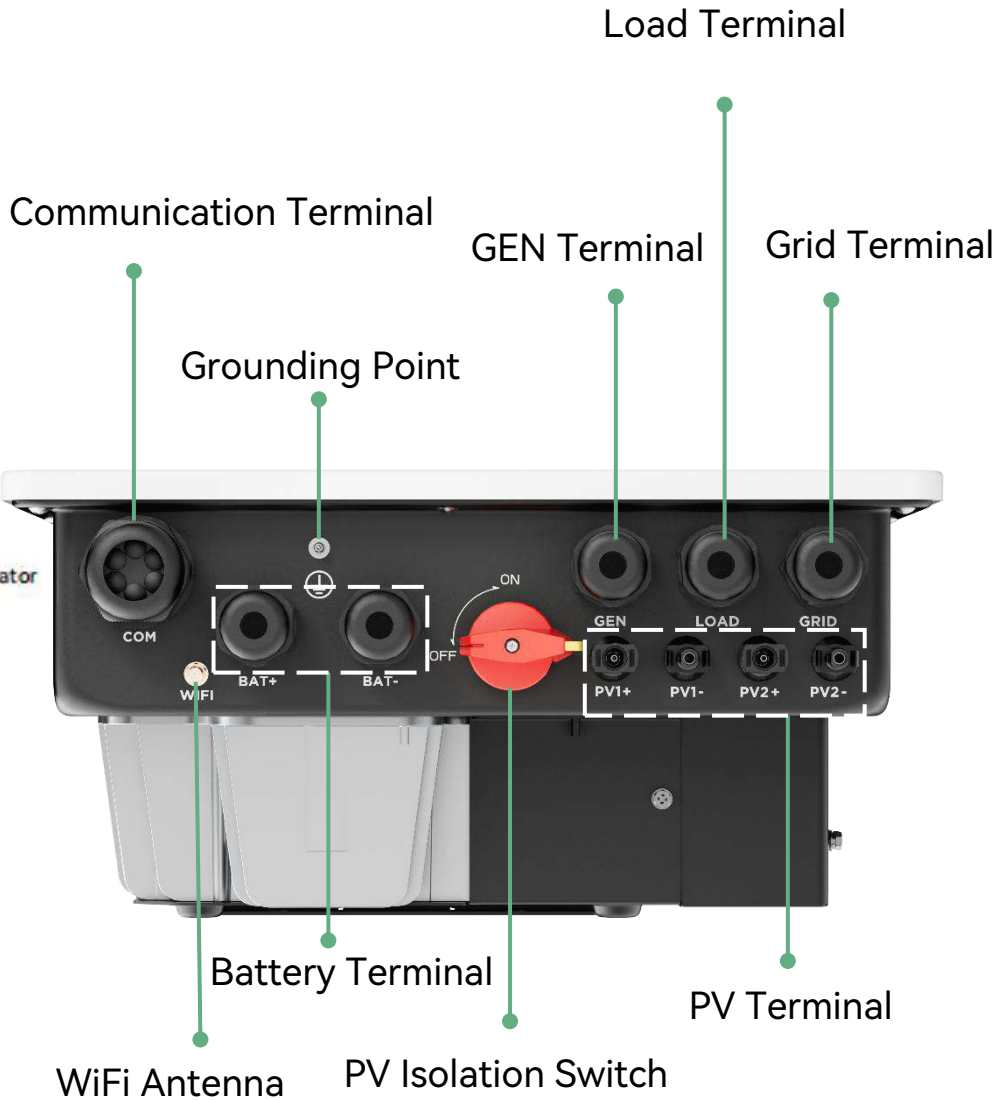
Parallel Function

Generator Port Function

Compatible Battery



Front Side



Bottom Port

Wiring Diagram

Datasheet

Parameter Comparison

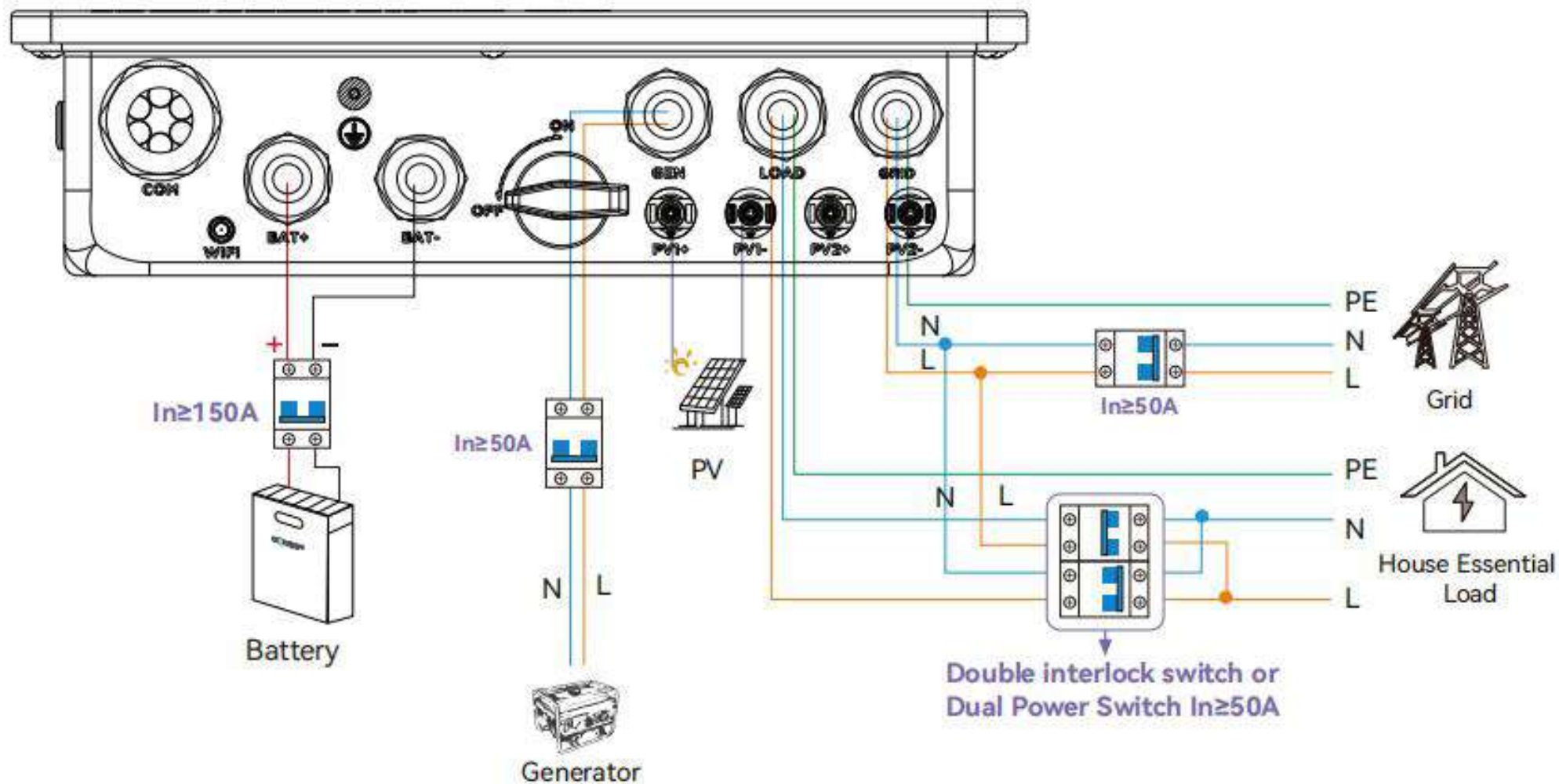
Product Showcase

Wiring Diagram

Parallel Function

Generator Port Function

Compatible Battery



Datasheet

Parameter Comparison

Product Showcase

Wiring Diagram

Parallel
Function

Generator Port Function

Compatible Battery

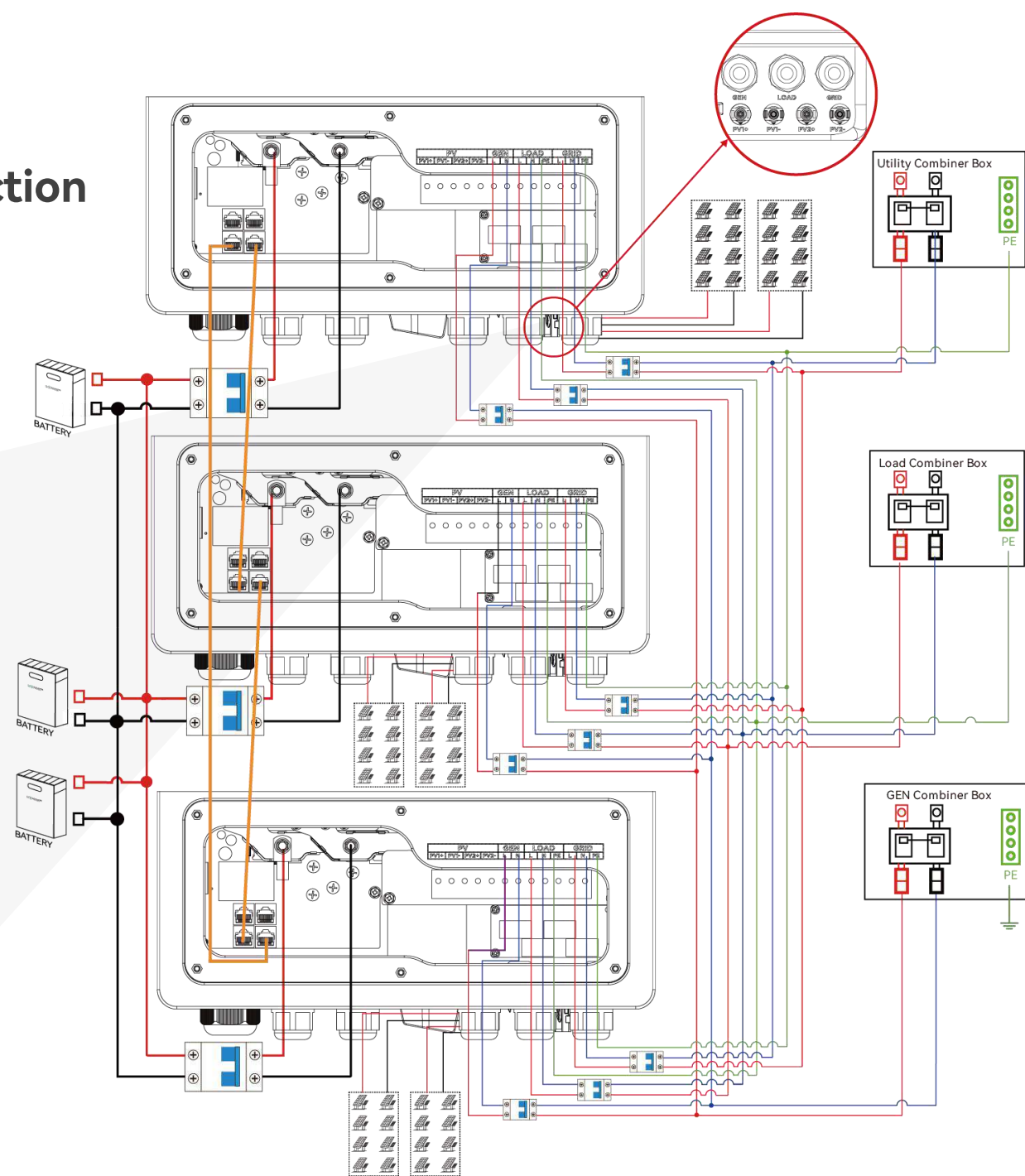
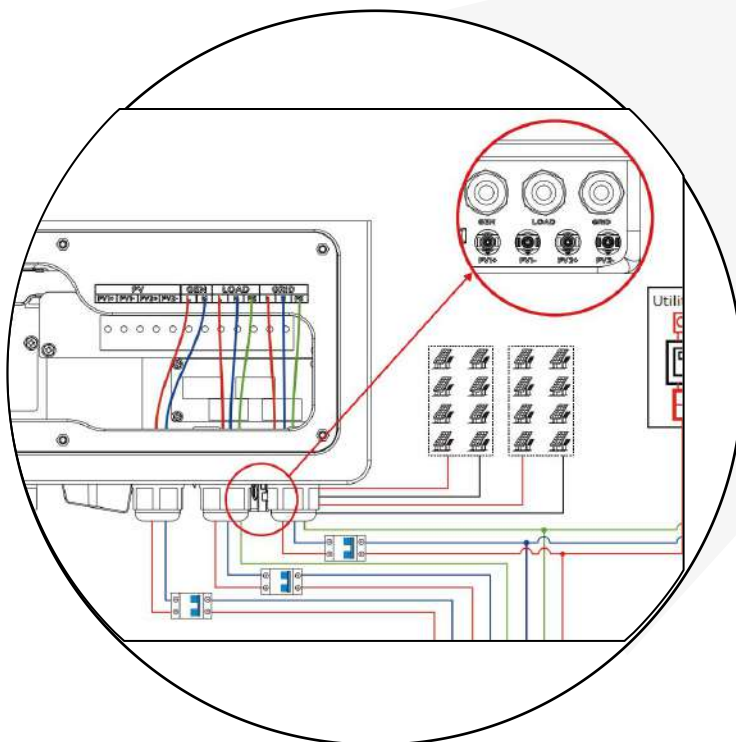


Single Phase Parallel Connection

Support up to

16 units

to parallel



Datasheet

Parameter Comparison

Product Showcase

Wiring Diagram

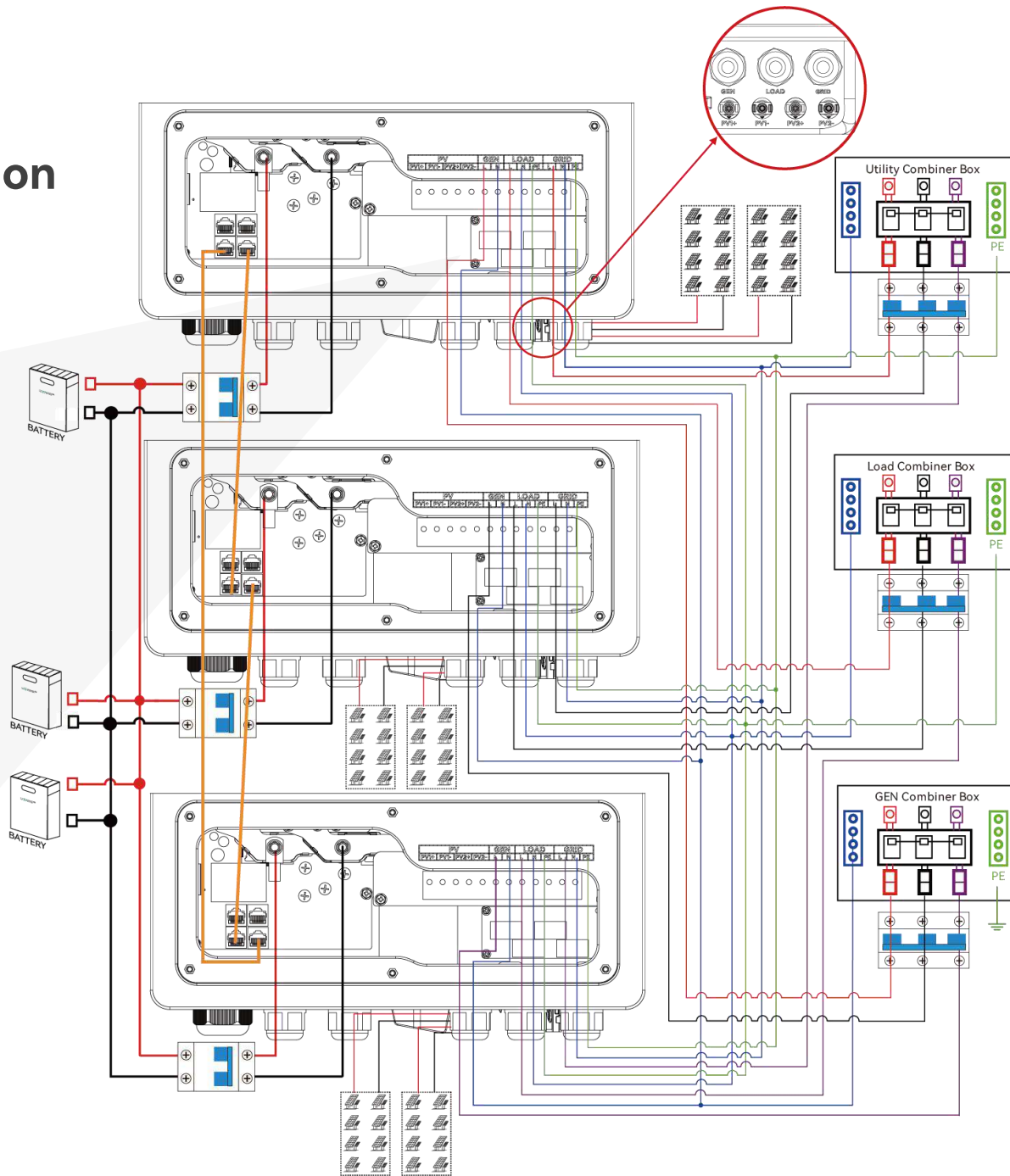
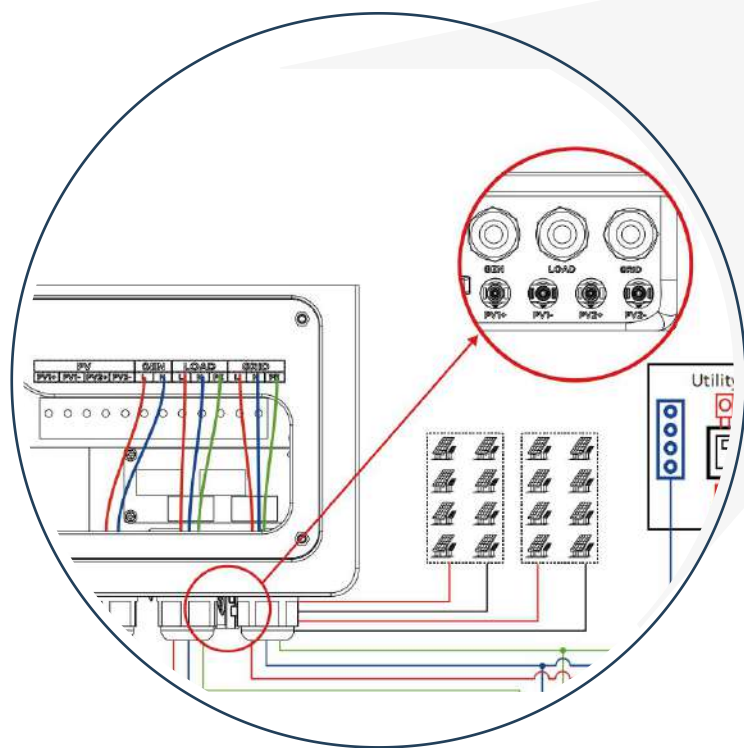
Parallel
Function

Generator Port Function

Compatible Battery



Three phases Parallel Connection



01

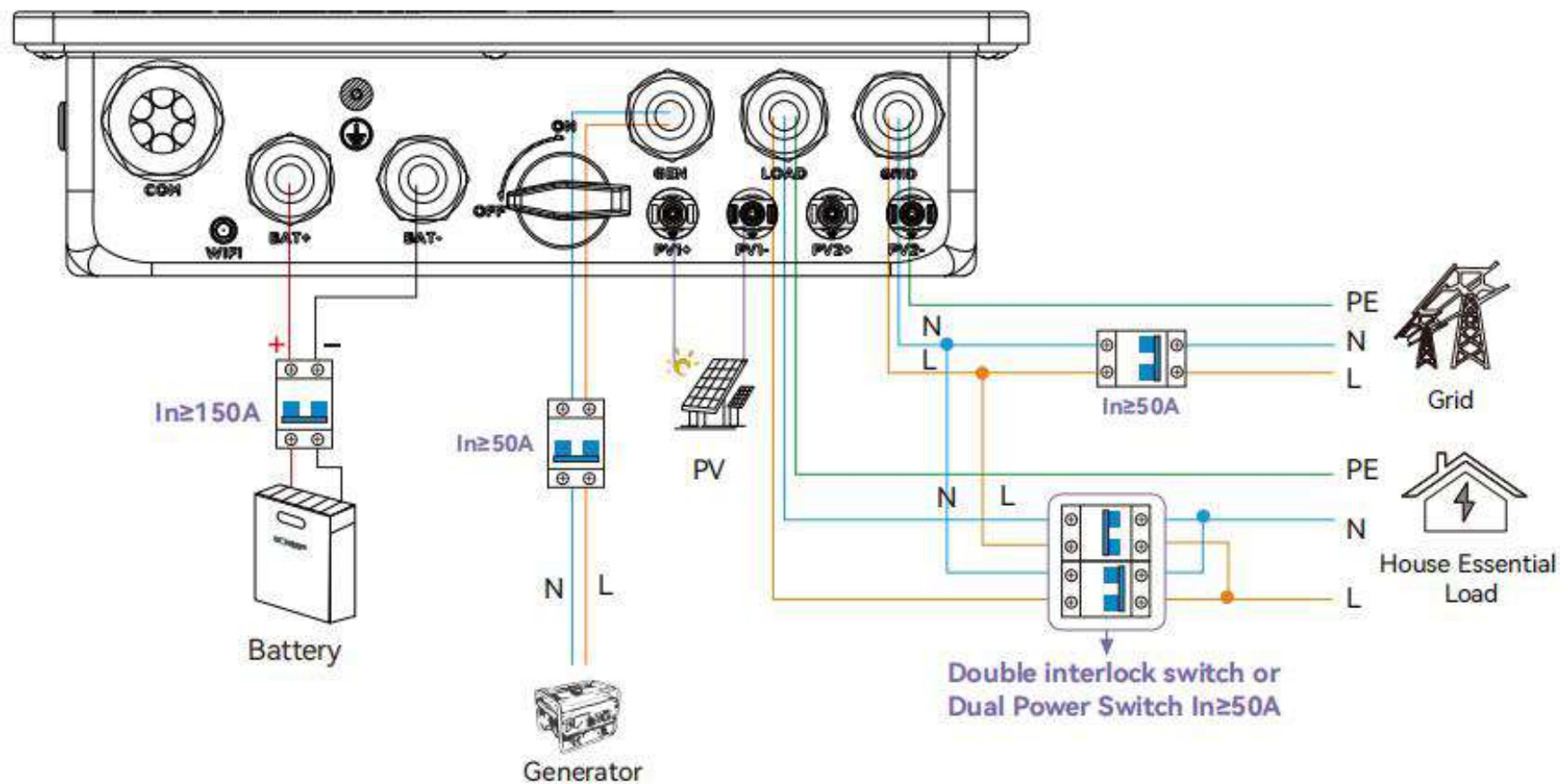
Generator Connection

7370W

Max Rated GEN input power (W)

32A

Max Rated GEN input current (A)



Datasheet

Parameter Comparison

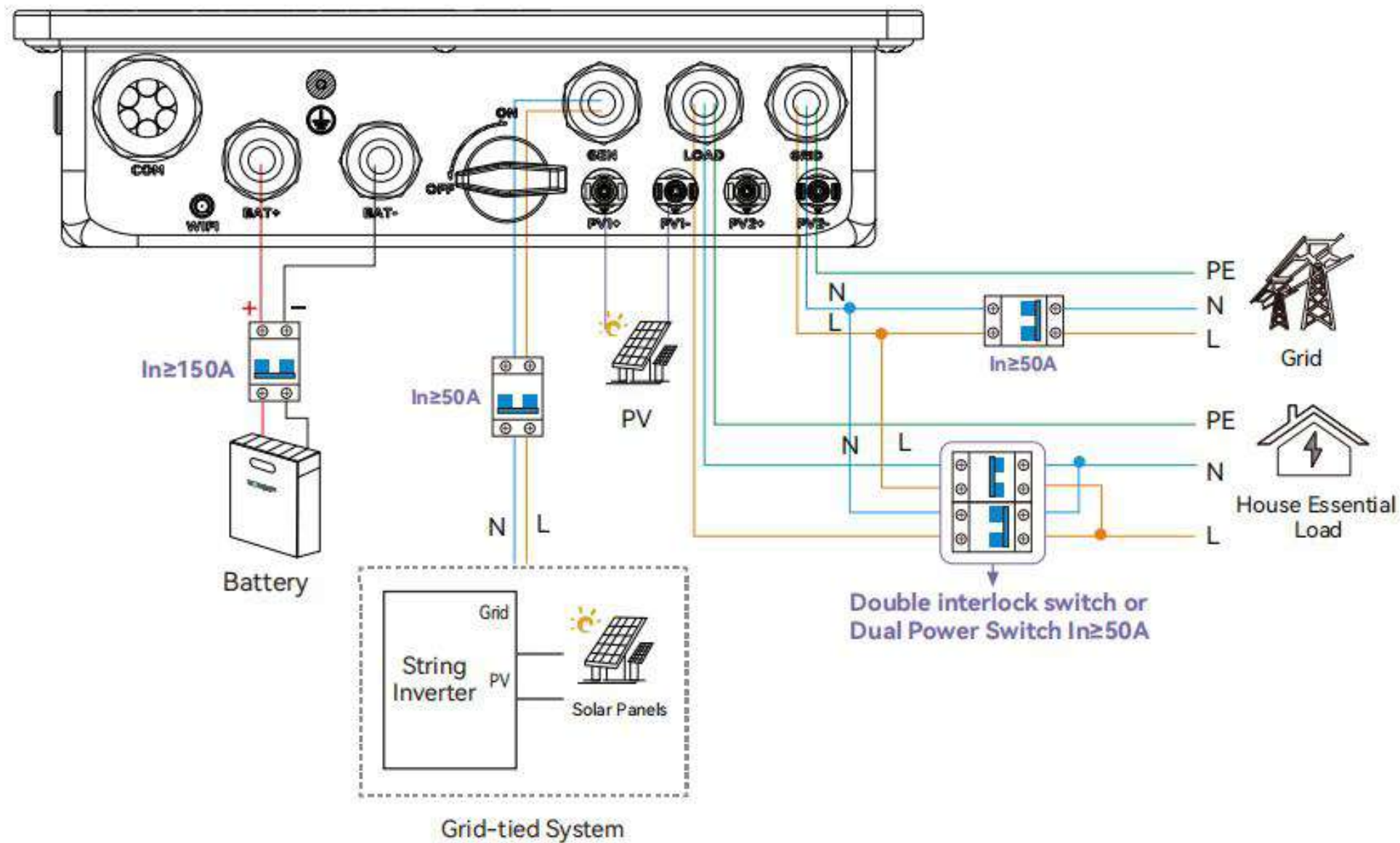
Product Showcase

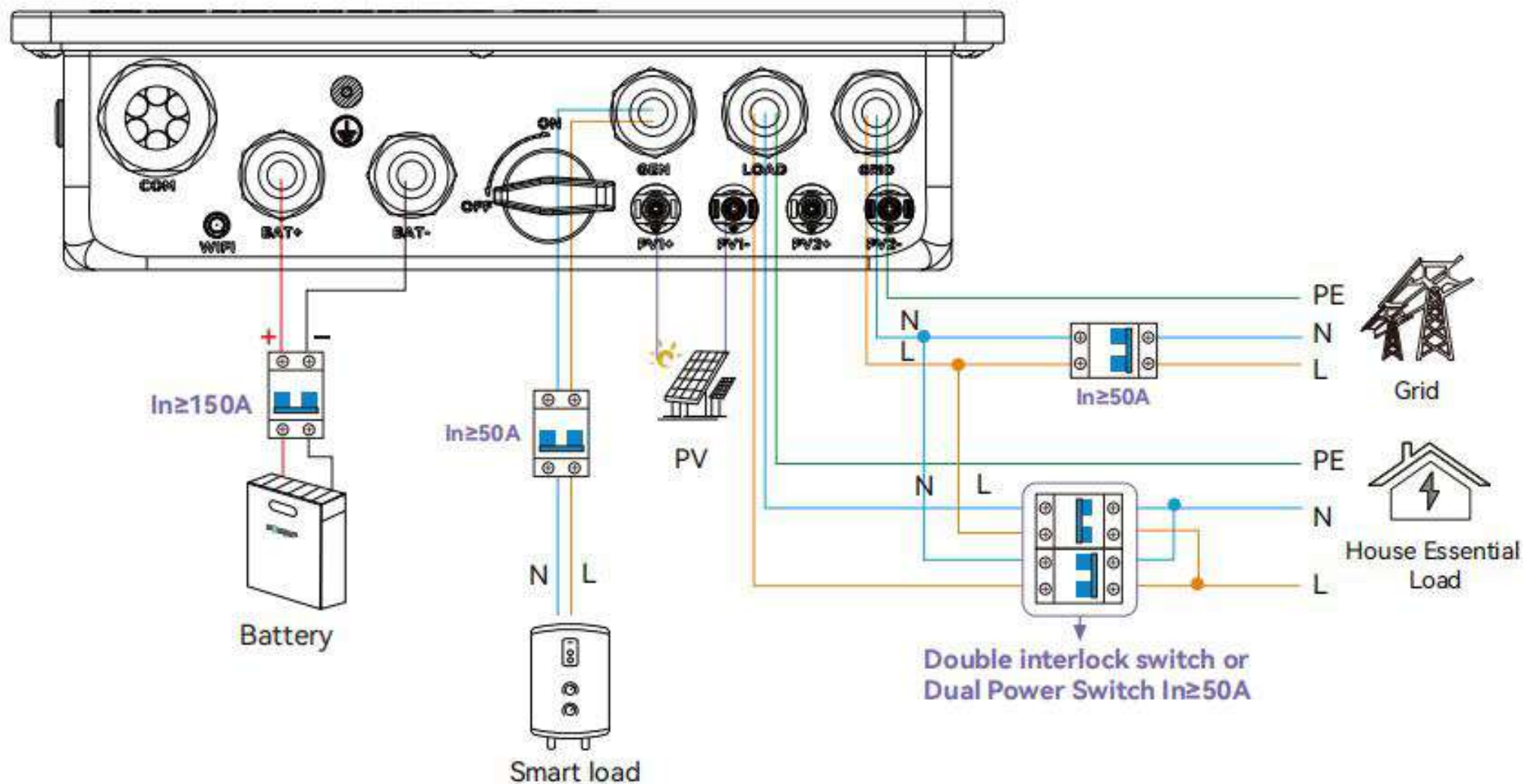
Wiring Diagram

Parallel Function

**Generator
Port Function**

Compatible Battery

[Datasheet](#)[Parameter Comparison](#)[Product Showcase](#)[Wiring Diagram](#)[Parallel Function](#)[Generator
Port Function](#)[Compatible Battery](#)

[Datasheet](#)[Parameter Comparison](#)[Product Showcase](#)[Wiring Diagram](#)[Parallel Function](#)[Generator
Port Function](#)[Compatible Battery](#)

Datasheet

Parameter Comparison

Product Showcase

Wiring Diagram

Parallel Function

Generator Port Function

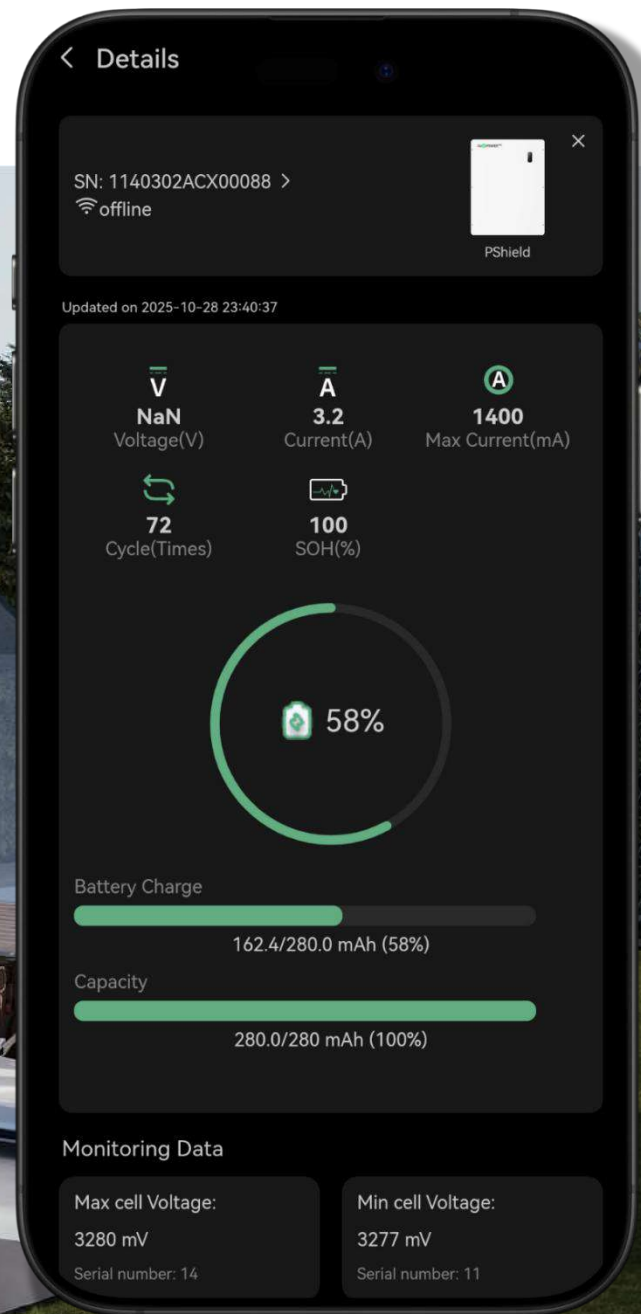
Compatible
Battery

Compatible mode

Lithium-ion/Lead-Acid/Battery-free

Pair with LuxpowerTek batteries, so you got:

- 01 Remote Battery Status Monitoring
- 02 Remote Firmware Updates
- 03 Remote Battery Settings Adjustment



04

Summary

Conclusion & Outlook

SNA PRO-EU 3-6.5K

Off-Grid Inverter with Hybrid Function

IP65

5 Years
Warranty

PV
Isolation
Switch



6500W

Rated Output Power



80~400V

MPPT voltage range



16Units

Max Parallel Supported

Value You Get

- Energy independence
- Lower electricity bills
- Reliable backup power
- Future-ready system



T H A N K S