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LUXPOWER TEK



Your Reliable Energy Solution Partner in *NIGERIA*



ABOUT

LuxpowerTek

Founded in 2017 in Shenzhen, China, LuxpowerTek delivers advanced hybrid and off-grid energy storage solutions.

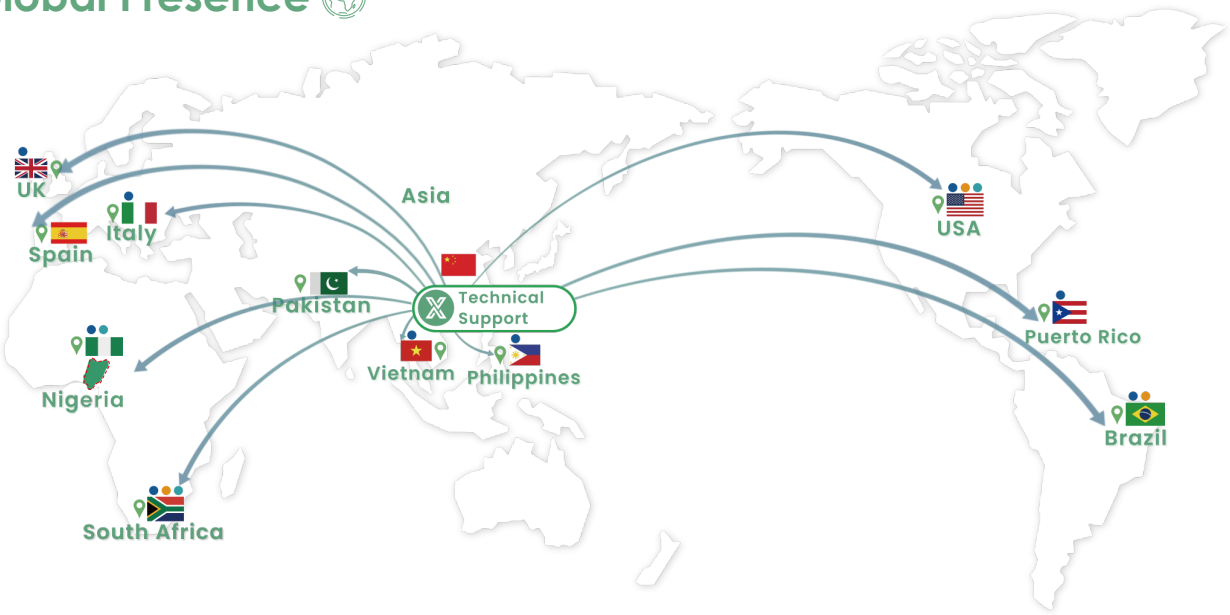
We focus on innovation, quality, and reliability to empower global homes and businesses.

With diverse products, a strong support team, and worldwide presence, we help customers achieve clean, affordable energy independence.



LuxpowerTek

Global Presence



- Brazil, USA, South Africa, Italy, **Nigeria**, Puerto Rico, Vietnam, UK, Philippines
- Brazil, USA, South Africa
- USA, South Africa, **Nigeria**

30W+
Systems

70+
Installed countries

24/7
Remote monitoring

Top 3
Brands in USA/Vietnam/Brazil



LuxpowerTek Nigeria
– Empowering Homes & Businesses with Reliable Solar Energy

LuxpowerTek is dedicated to providing Nigerian households and businesses with efficient, reliable solar energy storage systems, helping them overcome frequent power outages and rising energy costs.



Nigeria Solutions



Off-Grid Systems: Ideal for areas without grid coverage or where complete energy independence is required.



Hybrid Systems: Seamlessly switch between grid, solar, and battery power to ensure 24/7 electricity supply.

Product Highlights

Inverter Series: Single-phase, three-phase, low-voltage, and high-voltage models to meet a wide range of power requirements.





Battery Series

Single-unit capacities of 5kWh, 14.3kWh, and 16kWh, with IP20 and IP65 designs to meet diverse installation and protection needs.

Smart Management Platform – LuxCloud

Enables real-time remote monitoring, parameter adjustments, and energy usage analytics.



Market Advantages

Adapted to Local Conditions: High-temperature resistant, dustproof, and waterproof designs for the Nigerian climate.

Fuel Cost Savings: Reduce or replace diesel generator usage.

Scalable Systems: Support for parallel inverters and battery expansion to meet future demand.

Local Service Support: Training, after-sales, and technical assistance with fast response times.

Applications







Complete Solar Solution for the Nigerian Market

Starter Package

- SNA 5K/6K
- Li-5



Advanced Package

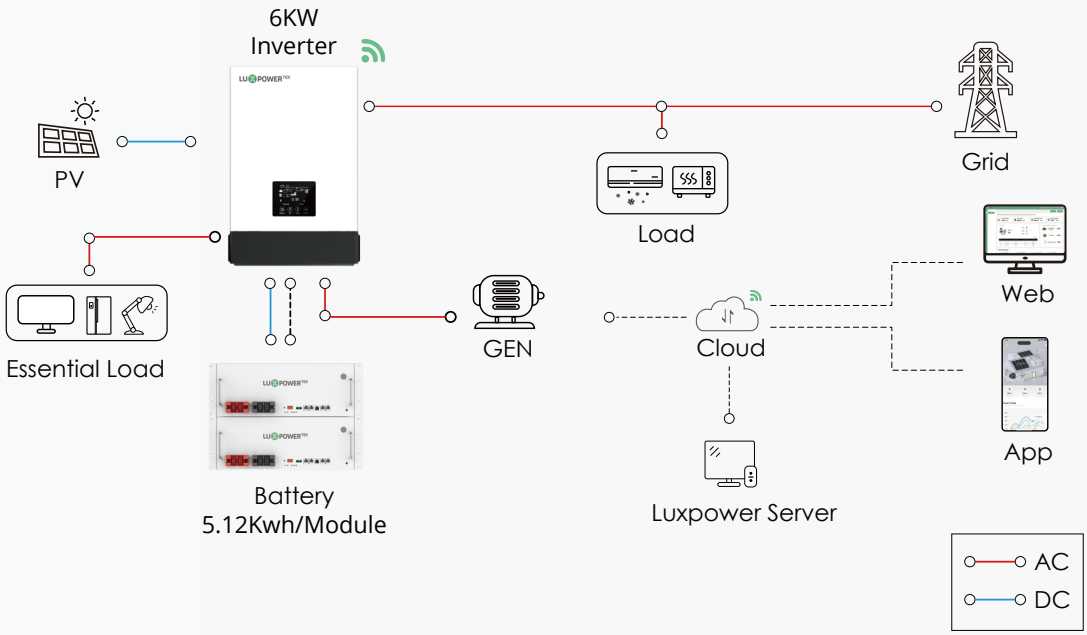
- Eco-Beast



Premium Package

- SNA 12K
- PGEM PRO





Starter Package

LuxpowerTek provides a complete off-grid solar energy solution for the Nigerian market, including the SNA 5K/6K + Li-5 kit set (inverter, lithium battery, and installation accessories), delivering a safe, stable, and highly efficient power experience.







SNA 5K/6K

PV (DC) Input	
Max. PV Input Power	8000W (5K) / 9600W (6K)
Rated PV Input Voltage	320V
Number of MPPT Inputs	2 (1:1)
PV Input Voltage Range	100–500V
Max. PV Input Current (per MPPT)	17A
Battery	
Compatible Battery Types	Lithium / Lead-acid
Rated Battery Voltage	48V
Max. Charge/Discharge Current	110A (5K) / 140A (6K)
PV Wake-up/Grid Wake-up Supported	Yes
Grid Input	
Rated input voltage	230V
Max. AC input current	39.5A
Max. AC input power	9000W
Rated AC current of bypass relays	60A
AC Output(Backup)	
Rated AC Output Power	5000W (5K) / 6000W (6K)
Rated AC Output Voltage	230V
Switching Time (UPS Mode)	<7ms single / <20ms parallel
Wave form	Pure sine wave
Efficiency	
Max. MPPT Efficiency	99.9%
Max. charge / discharge efficiency	93%
Environmental Adaptability	
Operating Temperature Range	0–50°C
IP rating	IP20
Relative Humidity	5%–95%
Altitude	<2000m
Cooling Method	Smart cooling
Warranty	
Product Warranty	2 years / 3 years



Li-5

Cell Type	LiFePO4
Rated Energy	5.12kWh
Rated Capacity	100Ah
Rated Voltage	51.2V
Charge Voltage	56.5V
Max. Charge/Discharge Current	100A
Discharge Peak Current	105A / 15s, 150A / 0.5s
Parallel	Up to 32 units parallelable w/o extra device needed, slave battery drops offline or come back alive does not affect system running
IP Level	IP20
Dimension (W*H*D)	452.6*165*481mm / 17.8*6.5*18.9 in
Weight	50kg / 110.2lbs
Communication	CAN/RS485
Humidity	5%~85% RH (No condensation)
Work Temperature	-20 ~ +55 ℃
Storage Temperature	-10 ~ +35 ℃
Remote Maintenance	Flexible remote upgrade,Original firmware backup to prevent upgrade failure
Warranty *	10 years, 6000 cycles
Certification	CE UN38.3; IEC62619
Protection	Overcharge/discharge/current/ voltage/temperature protection Short circuit protection, Reverse connection protection Charge balance, Low SOC protection

Features:

- 0ms off-grid/grid-tied switchover, smart charge/ discharge management, high efficiency and stability, supports remote monitoring & firmware upgrades.
- Working with Generator
- Parallel Up to 16 units

Advanced Package

Eco Beast

All-in-One Energy Storage Solution
for Homes & Apartments

Eco Beast is a scalable, all-in-one energy storage package designed for residential use.
Available in 5kWh, 10kWh, and 15kWh capacities.


Generator compatible


Remote powerless areas


Electricity cost saved


Backup power needed



Eco Beast

PV Input	
Max. PV Input Power	9600W
Rated PV Input Voltage	320V
Number of MPPT Inputs	2 (2:2)
PV Input Voltage Range	100–500V
Max. PV Input Current (per MPPT)	35A
Grid Input	
Rated input voltage	230V
Max. AC input current	39.5A
Max. AC input power	9000W
Continuous AC passthrough current	60A
AC Output(Backup)	
Rated Output Power	6000W
Surge Power	2×Pn, 5s
UPS Switching Time	<7ms (single) / <20ms (parallel)

Battery Module (Integrated)	
Battery Type	$LiFePO_4$
Rated Capacity	5.12 kWh
Nominal Voltage	51.2V
Max. Charge/Discharge Current	100A
Cycle Life	>6000 cycles @ 80% DOD
General	
Operating Temperature	0–45°C
IP Rating	IP20
Weight (with 2 battery modules)	125.4kg/276.4lbs
Dimensions (W×H×D) (with 2 battery modules)	580*1300*165mm / 22.8*51.2*6.5 in
Cooling Method	Smart cooling
Warranty	
Inverter Warranty	3 years
Battery Warranty	10 years



5kWh 10kWh 15kWh

Premium Package

Premium Off-Grid/Hybrid Solar Solution for the Nigerian Market

LuxpowerTek provides a premium solar energy solution for Nigeria, featuring the SNA 12K + PGEM PRO kit (inverter, lithium batteries, & accessories).
Designed as a pure off-grid inverter with hybrid capabilities, it integrates smart energy management and multiple interface options.
-Including dedicated smart load and generator inputs
-Supports CT for automatic export control and self-consumption optimization.

This all-in-one system delivers stable, efficient, and highly flexible power for larger households and small businesses.




Generator compatible


Backup power needed


Remote powerless areas


Electricity cost saved



SNA 12K

PV (DC) Input	
Max. PV Input Power	24000W
Rated PV Input Voltage	320V
Number of MPPT Inputs	2 (2:2)
PV Input Voltage Range	100-480V
Max. PV Input Current (per MPPT)	17A
Battery	
Compatible Battery Types	Lithium / Lead-acid
Rated Battery Voltage	48V
Max. Charge/Discharge Current	250A
PV Wake-up/Grid Wake-up Supported	Yes
Grid Input	
Rated input voltage	230V
Max. AC input current	90A
Max. AC input power	24000W
Continuous AC passthrough current	100A
AC Output(Backup)	
Rated AC Output Power	12000W
Rated AC Output Voltage	230V
Switching Time (UPS Mode)	<10ms single / <20ms parallel
Wave form	Pure sine wave
Efficiency	
Max. MPPT Efficiency	99.9%
Max. charge / discharge efficiency	93%
Environmental Adaptability	
Operating Temperature Range	0–50°C
IP rating	IP20
Relative Humidity	5%–95%
Altitude	<2000m
Cooling Method	Smart cooling
Warranty	
Product Warranty	2 years / 3 years



PGEM PRO

Cell Type	$LiFePO_4$
Rated Energy	14.3kWh
Rated Capacity	280Ah
Rated Voltage	51.2V
Charge Voltage	56.5V
Max. Charge/Discharge Current	140A
Parallel	Up to 32 units parallelable w/o extra device needed, slave battery drops offline or come back alive does not affect system running
IP Level	IP20
Dimension (W*H*D)	475*900*238mm / 18.7*35.4*9.4 in
Weight	115kg / 253.5lbs
Communication	CAN/RS485
Humidity	5%~85% RH (No condensation)
Work Temperature	-20 ~ +55 ℃
Storage Temperature	-10 ~ +35 ℃
Remote Maintenance	Flexible remote upgrade,Original firmware backup to prevent upgrade failure
Warranty *	10 years, 6000 cycles
Certification	CE UN38.3; IEC62619
Protection	Overcharge/discharge/current/ voltage/temperature protection Short circuit protection, Reverse connection protection Charge balance, Low SOC protection

* For more further details, please reach out to our sales or technical support team.



Single-Phase/Hybrid Series

GEN-LB-EU 7-10K

Three-phase/Hybrid Series

TriP2-LB-3P 5-20K

TriP2-HB-3P 6-30K

Battery Storage

PGEM

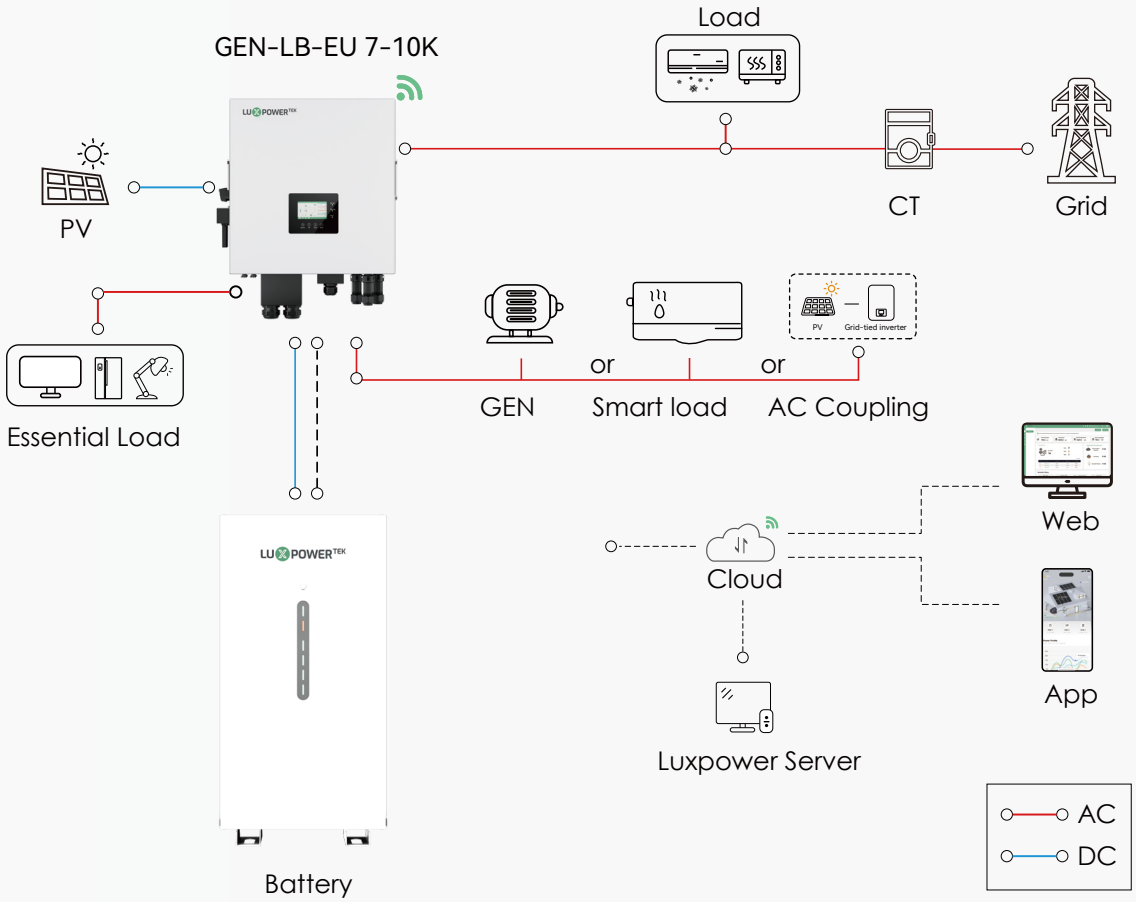
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Single-phase/Hybrid Series

GEN-LB-EU 7-10K



- Rated Power: 7kW/8kW/10kW
- MPPT number: 2
- Max. PV input power: 15kW
- Parallel Capacity: up to 10 units
- Battery Voltage: 48V/51.2V
- Pure sine wave hybrid inverter with generator input and smart load management
  - seamlessly integrates solar, battery, and grid for reliable 24/7 power.



Three-phase/Hybrid Series

TriP2-HB-3P 6-30K



- Rated Power: 6kW/8kW/10kW / 12kW/15kW/20kW/30kW
- Max. PV input power: 45kW
- Parallel Capacity: up to 10 units
- MPPT number: 6
- Battery volatge: 400V
- High-voltage three-phase hybrid inverter built for small commercial and larger residential use.
  It supports seamless solar, battery, grid, and generator integration to deliver stable, scalable energy with enhanced efficiency and smart power management
  - ideal for businesses looking to reduce energy costs and boost energy independence.

Three-phase/Hybrid Series

TriP2-LB-3P 5-20K

- MPPT number: 3
- Battery voltage: 48V/51.2V
- Rated Power: 5kW/6kW/8kW/10kW/ 12kW/15kW/20kW
- Max. PV input power: 30kW
- Parallel Capacity: up to 10 units
- Three-phase hybrid inverter engineered for flexible energy optimization
  - supports solar, grid, and generator inputs.
  Its intelligent mode switching and expandable design make it ideal for medium-sized residential and small commercial setups.



Low-Voltage Battery

PGEM



- Rated Energy: 5.12kWh
- Rated Capacity: 100Ah
- Max. Charge/Discharge Current: 100A
- Discharge Peak Current: 105A/15s, 150A/0.5s
- Parallel Units: 32
- IP rating: IP20
- Warranty: 10 years / 8000 cycles
- High-capacity storage, flexible expansion, and intelligent management —PGEM delivers a safe and efficient home energy hub.

High Voltage battery for small commerical use

PSTACK

- Battery module nominal capacity: 72Ah
- Battery module nominal voltage: 70.4V
- Battery module nominal energy: 5.069kWh
- Scalable capacity: 2–9 modules per stack, supporting up to 20 stacks in parallel for a maximum capacity of 900kWh.



Intelligent Monitoring & Remote Management — LuxCloud

Always On, Always In Control

See your system at a glance and act from anywhere — on web or mobile.

Connectivity

Wi-Fi / Ethernet built-in

Optional 4G for sites without stable internet

Secure login, data encryption

Real-Time Visibility

Live views of PV, battery, grid, and loads

Energy flow diagram + instant KPIs (power, SOC, daily yield)

Event feed & health status at a glance

Remote Control

Switch operating modes (self-consumption / backup / TOU)

Set charge/discharge windows & backup reserve

Smart load priorities for essential circuits

Alerts & Insights

Push notifications for faults & warnings

Trend charts and history for performance analysis

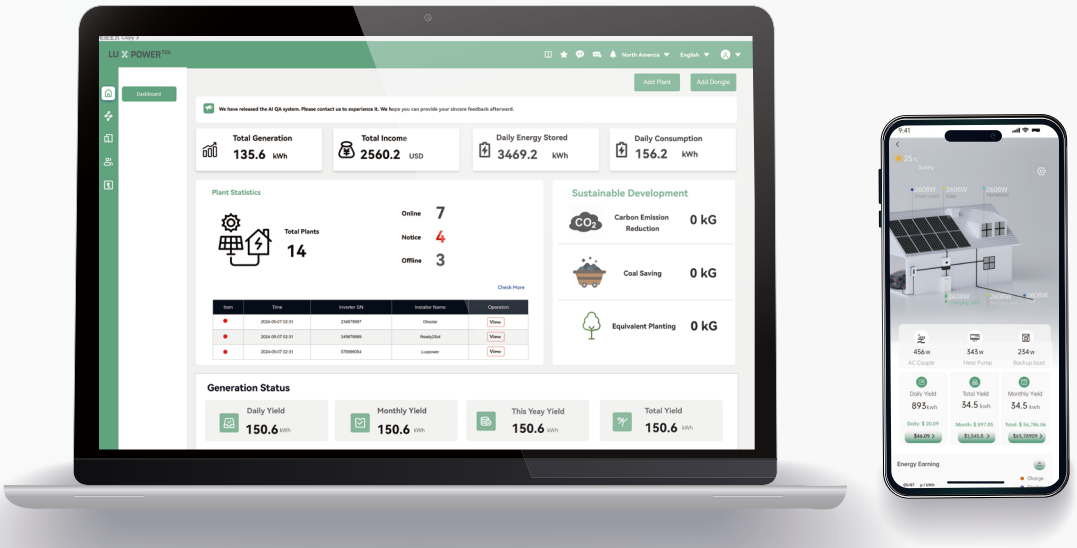
Suggestions to improve savings and backup time

Installer Tools

Guided commissioning & remote diagnostics

Fleet dashboard for multi-site monitoring

OTA firmware updates & parameter templates



For Android

For IOS

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