

# LESSO

Residential Hybrid Smart Energy Solutions



**Intelligent Storage for Smart Living**

Ver. 2026.05

# A Bright and Exciting Journey

LESSO Group is a Hong Kong-listed (2128.HK) manufacturer of building materials with an annual revenue of over USD4.38 billion from its global operations.

LESSO Solar, a flagship division of LESSO Group, specialises in manufacturing solar panels, inverters, and energy storage systems, and providing solar-energy solutions.

Since launching its global expansion strategy in 2022, LESSO Solar has been growing at a spectacular pace, extending its reach to over 50 countries worldwide with dedicated global support teams.



**USD4.38 bil**

Annual Sales Revenue



**4 major**

Production Bases



**40 years**

Production Experience



**50+ countries**

Global Support Teams



By utilizing only the finest raw materials and cutting-edge technology, we meticulously oversee every stage of the production process to provide our customers with the highest-quality products.



# INTELLIGENT STORAGE FOR SMART LIVING



## SAFETY

The battery system complies with multiple key international standards – UN38.3, MSDS, etc.



## EFFICIENCY

MPPT efficiency **>99%**, PV efficiency **>96%**, system efficiency up to **95%**.



## DURABILITY

Module warranty **30** years, system design life **>15** years.



## RELIABILITY

Grid/solar/battery switching time **<10** ms for an uninterrupted experience.



## FLEXIBLE

Requires only **4.5** m<sup>2</sup>/kW for module installation, fitting different installation scenarios easily.



# 8kW Single Phase Hybrid Solar Energy Solution



For high-demand homes: multi-zone AC, large appliances.

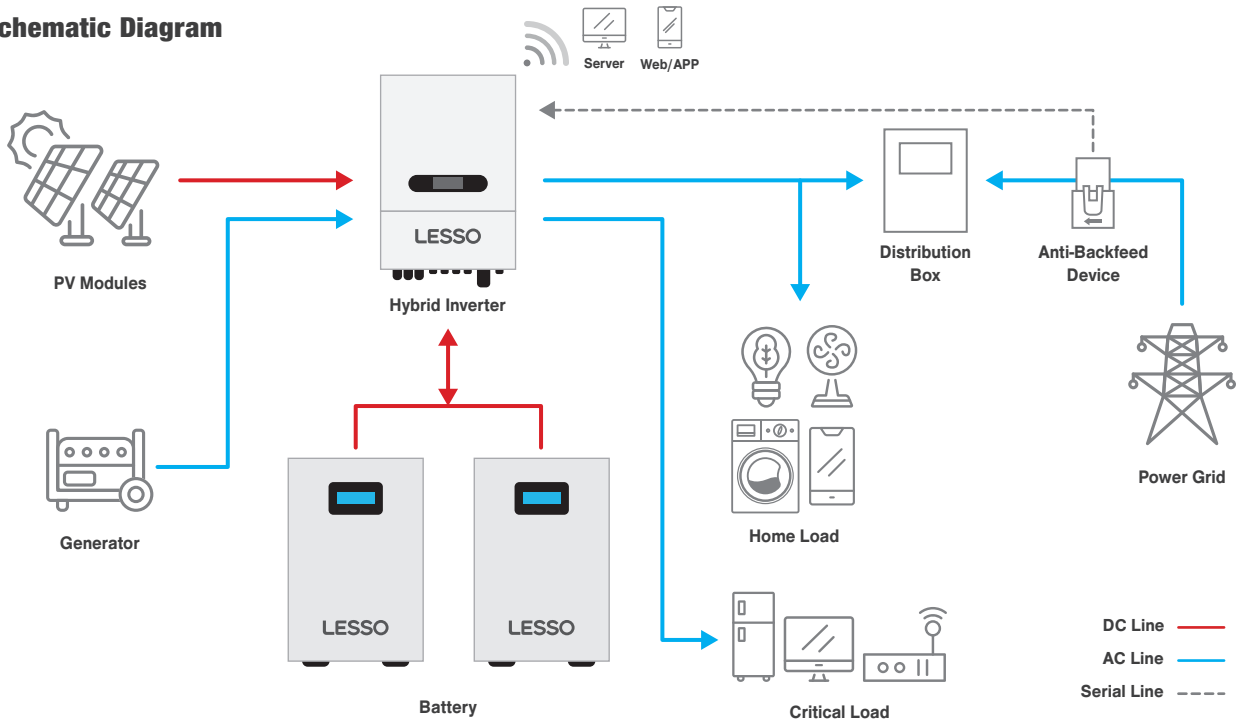


Output: 66kWh/day, supports extensive backup needs.



High-capacity hybrid operation & scalable storage for energy independence.

## Schematic Diagram



## System Configuration

	<b>8kW+20.98kWh</b>
<b>AC Output Type</b>	Single phase 220/230Vac L-N
<b>PV Capacity</b>	450Wp x 33pcs
<b>Daily Average Energy Production (5h)</b>	66kWh
<b>PV Installation Footprint</b>	> 66m <sup>2</sup>
<b>Energy Storage Capacity</b>	51.2V / 205Ah / 10.49kWh x2
<b>Inverter</b>	8kW
<b>BOS (optional)</b>	PV cable, Battery cable, AC cable, Distribution box

\* The battery pack can be expanded to 4 groups (the battery distribution box needs to be replaced).

\* The daily average available energy production is calculated based on 90% of the total power of PV modules.

\* Remark: Specifications are subject to change without notice.

# 12kW Three Phase Hybrid Solar Energy Solution



For premium estates: full-house automation, pools, workshops.

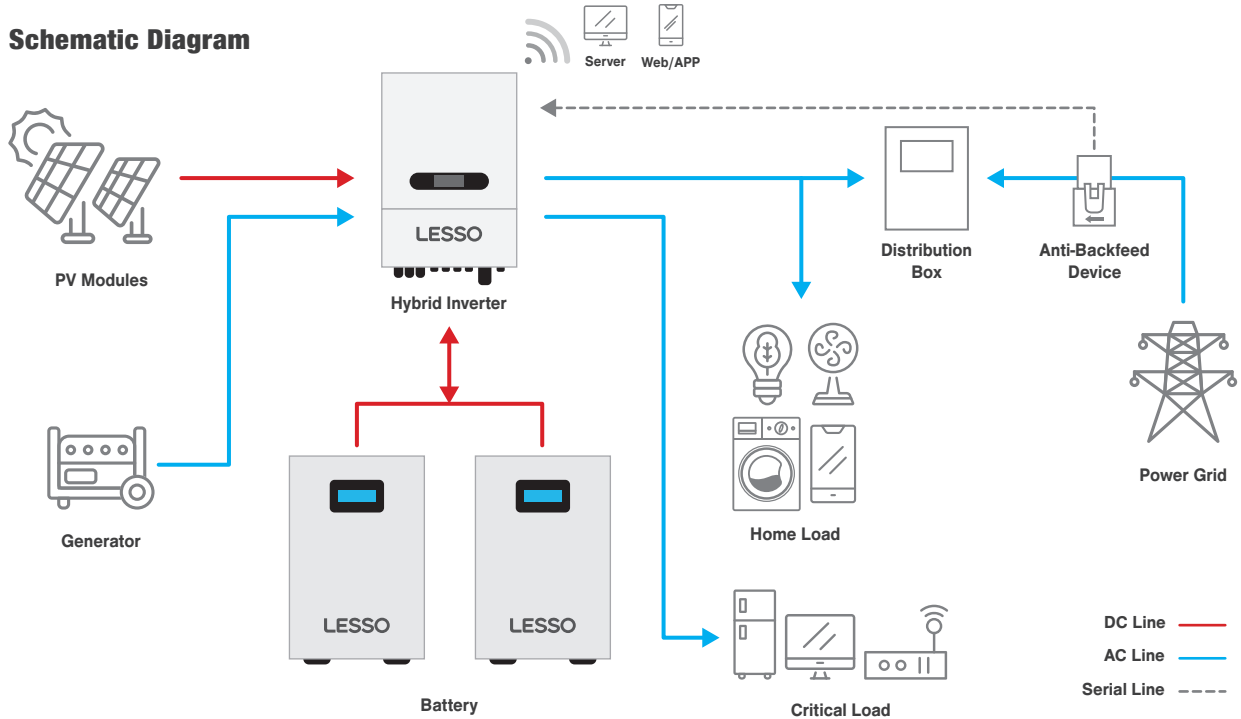


Output: 97kWh/day, enables full energy self-sufficiency.



Utility-scale hybrid power & intelligent storage for zero-waste energy.

## Schematic Diagram



## System Configuration

	<b>12kW+20.98kWh</b>
<b>AC Output Type</b>	Three phase 380/400Vac L1-L2-L3-N
<b>PV Capacity</b>	450Wp x 48pcs
<b>Daily Average Energy Production (5h)</b>	97kWh
<b>PV Installation Footprint</b>	> 96m <sup>2</sup>
<b>Energy Storage Capacity</b>	51.2V / 205Ah / 10.49kWh x2
<b>Inverter</b>	12kW
<b>BOS (optional)</b>	PV cable, Battery cable, AC cable, Distribution box

\* The battery pack can be expanded to 4 groups (the battery distribution box needs to be replaced).

\* The daily average available energy production is calculated based on 90% of the total power of PV modules.

\* Remark: Specifications are subject to change without notice.

## Product Specifications

### 450C(HBD)48(210R)

#### 210R N-TOPCon dual-glass bifacial PV module

**Solar cell type:** 210R N-TOPCon Mono Cell (Half cell)

**Solar cell arrangement:** 96pcs(6x16)

**Max power:** 450W

**Max efficiency:** 22.52%

**Dimension:** 1762x1134x30mm

**Weight:** 24.7kg



### LEC-802A3BD-AT/LEC-123B3BD-AT

#### Hybrid inverter

**Rated power:** 8kW/12kW

**DC input voltage:** 48Vdc

**Output voltage:** 220/230V@8kW, 380V/400V@12kW

**Output type:** Single phase / Three phase



### LSRW51V205AH-LFP

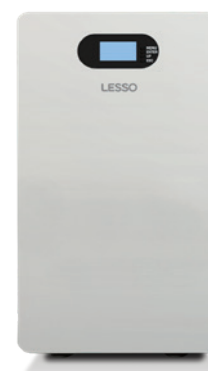
#### Low voltage battery

**Nominal voltage:** 51.2Vdc

**Nominal capacity:** 205Ah

**Nominal energy:** 10.49kWh

**Battery type:** LiFePO<sub>4</sub> battery



## Residential Solar Power Project Highlights



Location: Essex, UK | Project Capacity: 16.3kWp PV + 2x5kW Hybrid Inverters / 6x5kWh Batteries



Location: Essex, UK | Project Capacity: 7.7kWp PV + 2x5kW Hybrid Inverters / 3x10kWh Batteries



Location: Greater London, UK | Project Capacity: 2.2kWp PV + 2x5kW Hybrid Inverters / 3x10kWh Batteries

### Guangdong Lesso Energy Storage Technology Co., Ltd

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LESSO Group (2128) is listed in the Stock Exchange of Hong Kong.