

LESSO

Residential Off-grid Smart Energy Solutions



Intelligent Storage for Smart Living

Ver. 2026.05

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.



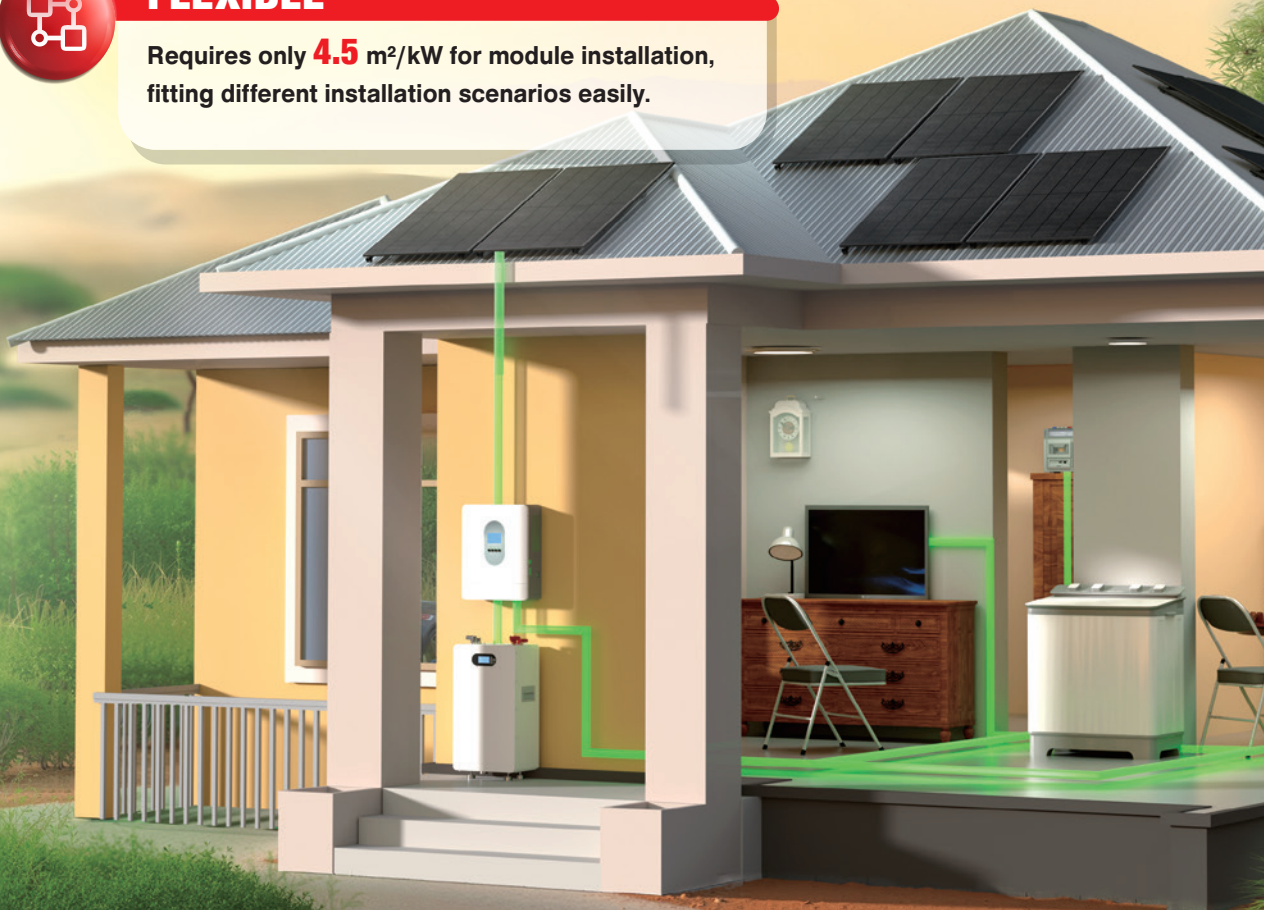
RELIABILITY

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



FLEXIBLE

Requires only **4.5** m²/kW for module installation, fitting different installation scenarios easily.



1.5kW Single Phase Off-grid Solar Energy Solution



Powers home essentials: lighting, charging, fans, small appliances.

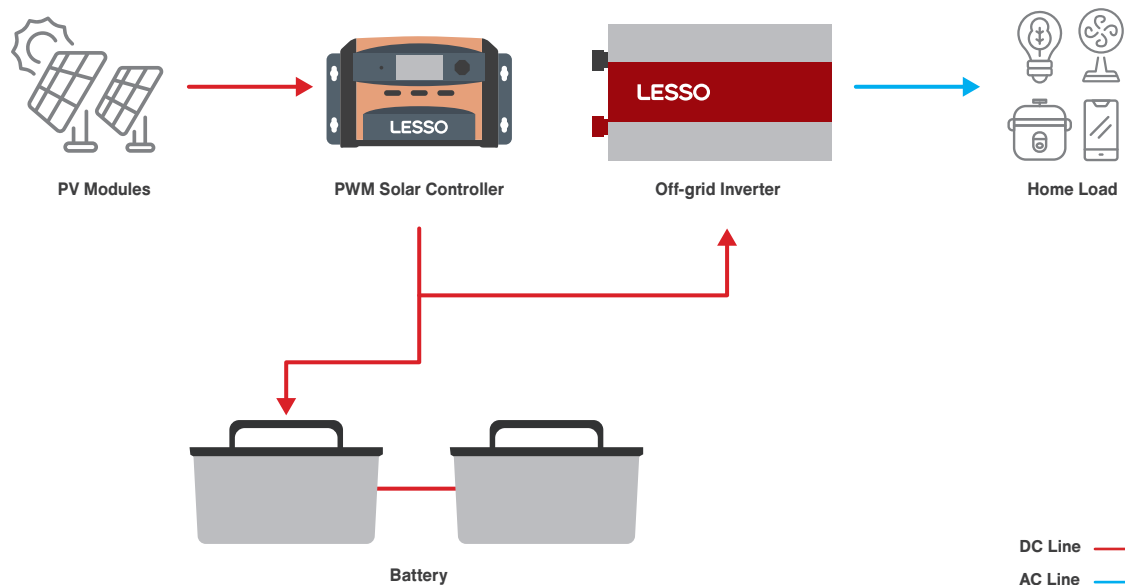


Output: 4kWh/day, supports basic loads for 8-12 hours.



Simple & quick setup, ready to use fast.

Schematic Diagram



System Configuration

	1.5kW+2.4kWh
AC Output Type	Single phase 230Vac L-N
PV Capacity	450Wp x 2pcs
Daily Average Energy Production (5h)	4kWh
PV Installation Footprint	> 4m ²
Energy Storage Capacity	12V / 100Ah x2
PWM / Inverter	PWM: 40A Inverter: 1.5kW
BOS (optional)	PV cable, Battery cable, AC cable, Circuit breakers

* 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.

4kW Single Phase Off-grid Solar Energy Solution



All-day electricity for medium households.

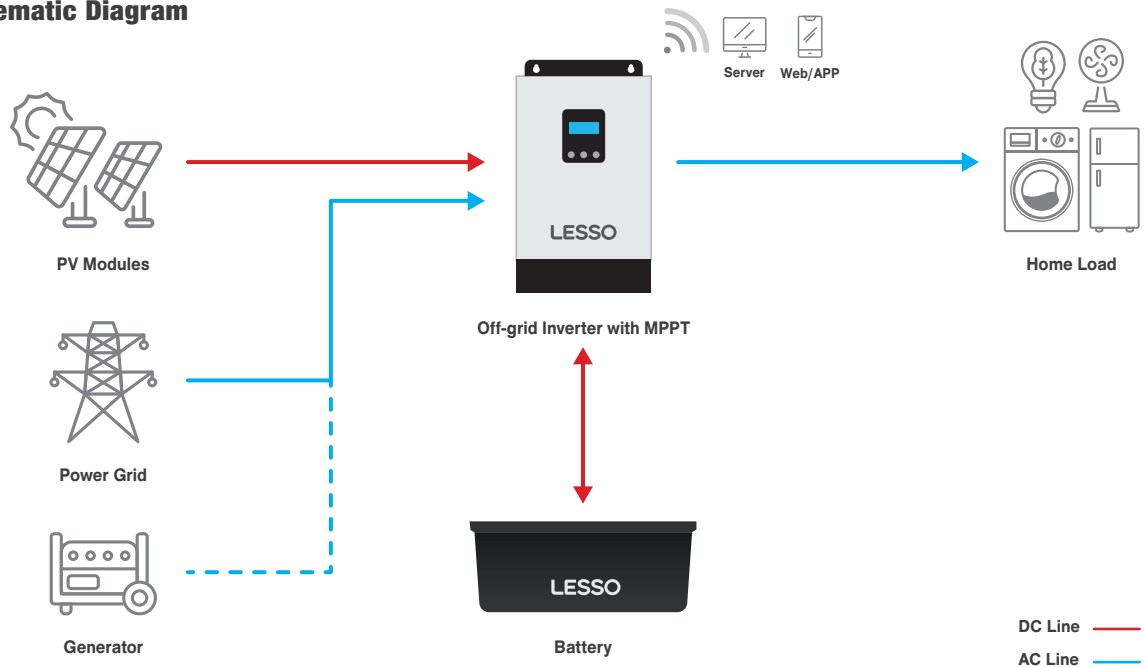


Output: 17kWh/day, 24-hour uninterrupted power for home appliances.



No blackout, smart auto-switch between solar/grid/battery.

Schematic Diagram



System Configuration

	4kW+3.84kWh
AC Output Type	Single phase 220/230/240Vac L-N
PV Capacity	635Wp x 6pcs
Daily Average Energy Production (5h)	17kWh
PV Installation Footprint	> 18m ²
Energy Storage Capacity	25.6V / 200Ah / 3.84kWh
Inverter	4kW
BOS (optional)	PV cable, Battery cable, AC cable, Distribution box

* The battery distribution box can be expanded to accommodate one additional set of batteries of the same capacity.

* 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.

6.2kW Single Phase Off-grid Solar Energy Solution



For high-power needs: air conditioners, water pumps.

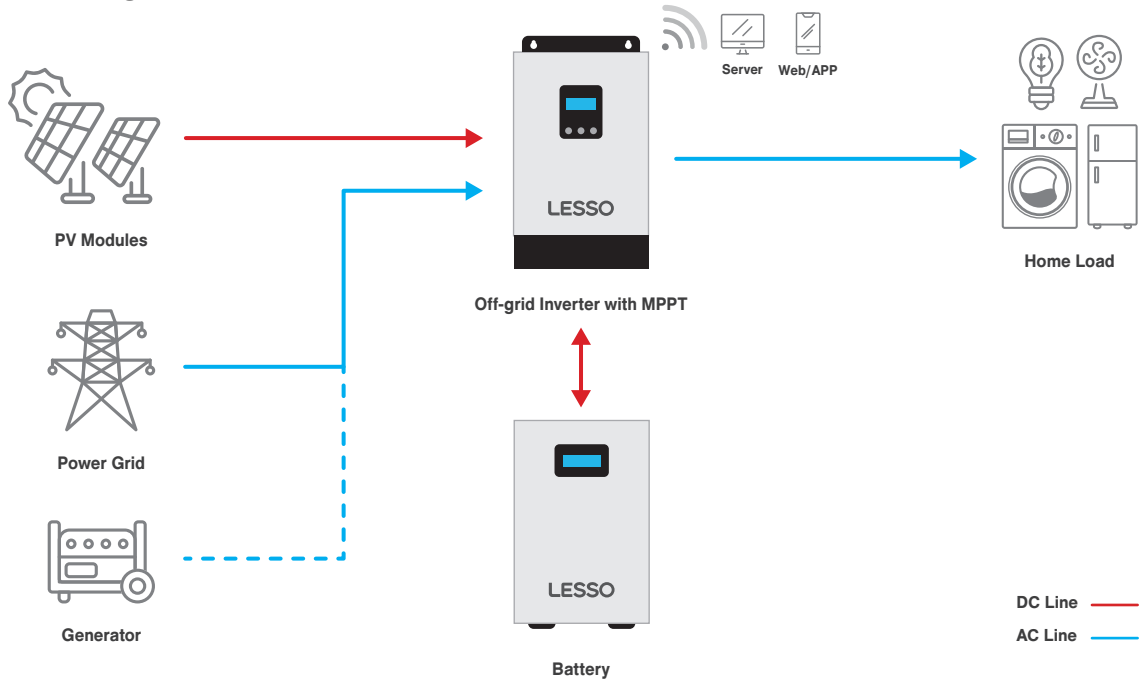


Output: 22kWh/day, 6-10 hours for key equipment.



Strong output & modular battery for easy capacity expansion.

Schematic Diagram



System Configuration

	6.2kW+10.49kWh
AC Output Type	Single phase 220/230/240Vac L-N
PV Capacity	635Wp x 8pcs
Daily Average Energy Production (5h)	22kWh
PV Installation Footprint	> 24m ²
Energy Storage Capacity	51.2V / 205Ah / 10.49kWh
Inverter	6.2kW
BOS (optional)	PV cable, Battery cable, AC cable, Distribution box

* The battery distribution box can be expanded to accommodate one additional set of batteries of the same capacity.

* 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.

6.2kW Single Phase Hybrid Solar Energy Solution



For all-day power use:
AC, heating,
EV charging.

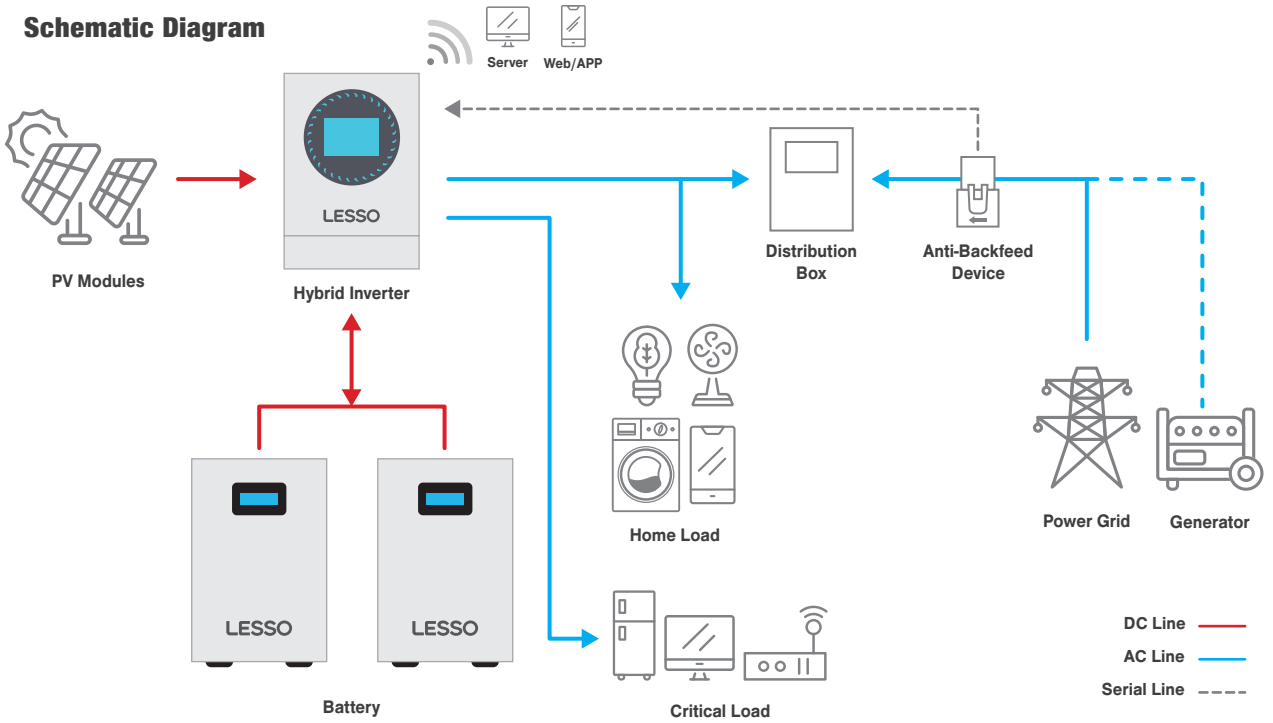


Output: 40kWh/day,
supports whole-house
backup.



Grid-tied efficiency &
modular battery for smart
energy management.

Schematic Diagram



System Configuration

	6.2kW+20.98kWh
AC Output Type	Single phase 220/230Vac L-N
PV Capacity	635Wp x 14pcs
Daily Average Energy Production (5h)	40kWh
PV Installation Footprint	> 52m ²
Energy Storage Capacity	51.2V / 205Ah / 10.49kWh x2
Inverter	6.2kW
BOS (optional)	PV cable, Battery cable, AC cable, Distribution box

* 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.

12.4kW Single Phase Off-grid Solar Energy Solution



For Ideal for large, high-consumption households.

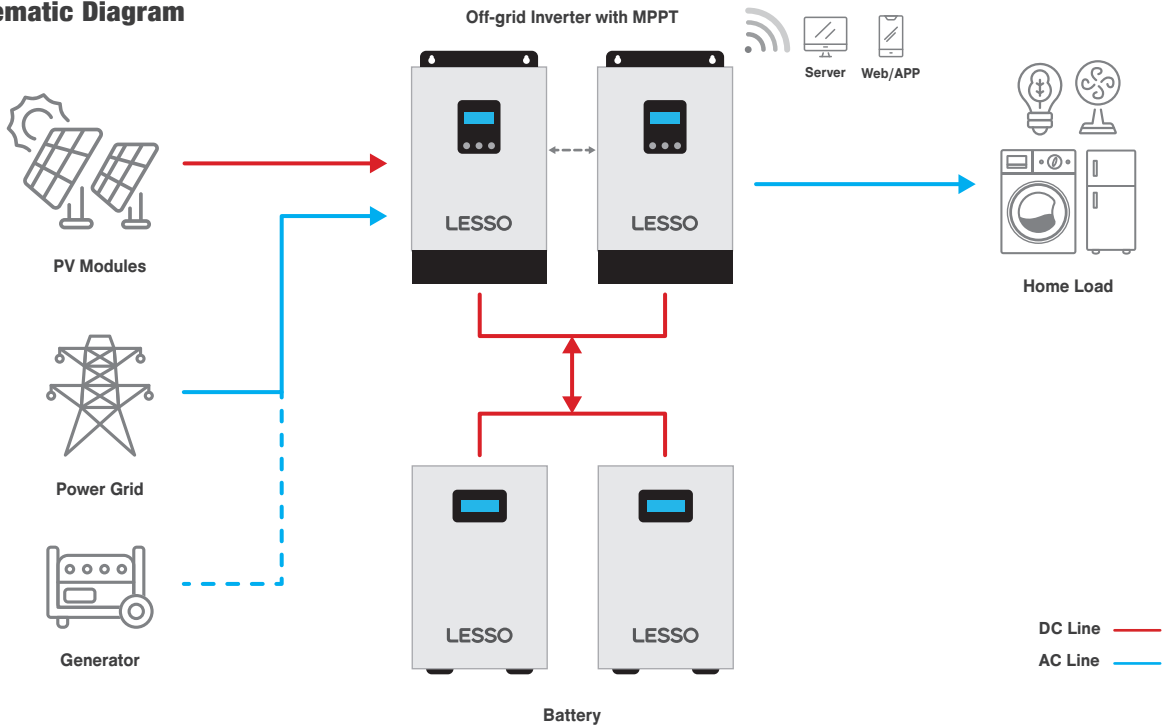


Output: 45kWh/day, Power all appliances simultaneously.



Achieve year-round reliable energy independence.

Schematic Diagram



System Configuration

	12.4kW+20.98kWh
AC Output Type	Single phase 220/230/240Vac L-N
PV Capacity	635Wp x 16pcs
Daily Average Energy Production (5h)	45kWh
PV Installation Footprint	> 48m ²
Energy Storage Capacity	51.2V / 205Ah / 10.49kWh x2
Inverter	6.2kW x2
BOS (optional)	PV cable, Battery cable, AC cable, Distribution box

* 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.

18.6kW Three Phase Off-grid Solar Energy Solution



Ideal for large homes/villas with three-phase supply.

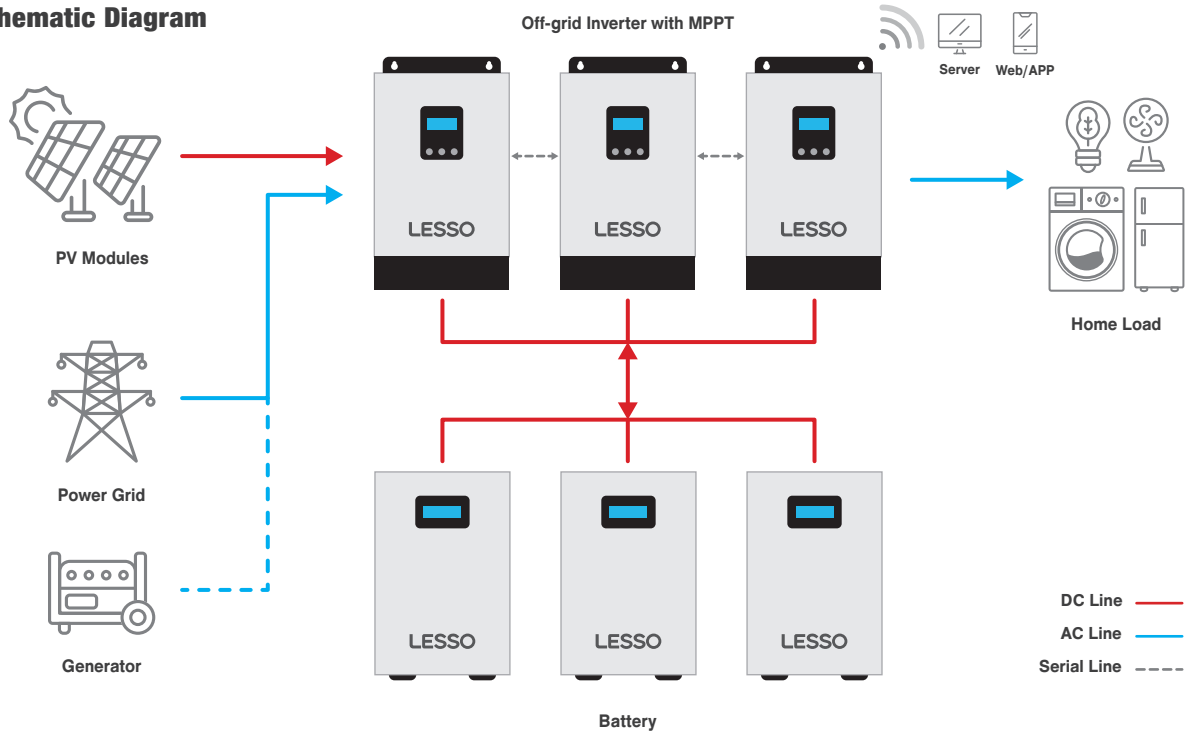


Output: 68kWh/day, runs high-power appliances (e.g., electric stoves) for long periods.



Supports unbalanced 3-phase loads, better compatibility.

Schematic Diagram



System Configuration

	18.6kW+31.47kWh
AC Output Type	Three phase 380/400Vac L1-L2-L3-N
PV Capacity	635Wp x 24pcs
Daily Average Energy Production (5h)	68kWh
PV Installation Footprint	> 72m ²
Energy Storage Capacity	51.2V / 205Ah / 10.49kWh x3
Inverter	6.2kW x3
BOS (optional)	PV cable, Battery cable, AC cable, Distribution box

* 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)54(182)

182 N-TOPCon dual-glass bifacial PV module

Solar cell type: 182mm N-TOPCon Mono Cell (Half cell)

Solar cell arrangement: 108pcs(6x18)

Max power: 450W

Max efficiency: 23.04%

Dimension: 1722x1134x30mm

Weight: 23.1kg



635C(HBD)66(210R)

210R N-TOPCon dual-glass bifacial PV module

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

Solar cell arrangement: 132pcs(6x22)

Max power: 635W

Max efficiency: 23.51%

Dimension: 2382x1134x30mm

Weight: 32.5kg



LET-B40KN1E1

PWM-controlled PV DC-DC converter

DC Output Voltage: 24Vdc

PV Input Voltage: 12-54Vdc



LGC-152BLP2

Off-grid inverter

Rated power: 1.5kW

DC input voltage: 24Vdc

Output voltage: 230Vac

Output type: Single phase modified sine wave



DJM12100

Low voltage battery

Rated voltage: 12V

Nominal capacity: 100Ah

Battery type: Lead acid battery



LES-402A2AF-TF

Off-grid inverter with MPPT

Rated power: 4kW

DC input voltage: 24Vdc

Output voltage: 220/230/240Vac

Output type: Single phase



LES-622A4BF-TF

Off-grid inverter with MPPT

Rated power: 6.2kW

DC input voltage: 48Vdc

Output voltage: 220/230/240Vac

Output type: Single phase



LEC-622A4B2F2-TF

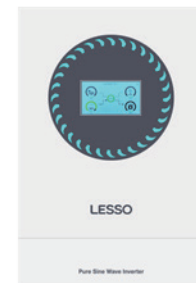
Hybrid inverter

Rated power: 6.2kW

DC input voltage: 48Vdc

Output voltage: 220/230/240Vac

Output type: Single phase



LSM025.6V200AH-B01

Low voltage battery

Nominal voltage: 25.6V

Nominal capacity: 200Ah

Nominal energy: 3.84kWh

Battery type: LiFePO₄ battery



LSRW51V205AH-LFP

Low voltage battery

Nominal voltage: 51.2Vdc

Nominal capacity: 205Ah

Nominal energy: 10.49kWh

Battery type: LiFePO₄ battery



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



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