

LFP 16kWh / LV

51.2V 314Ah

RECHARGEABLE LITHIUM BATTERY



Scalable up to
257kWh 16 (Parallel)



IP65 Rating
Triple hardware protection



Smart BMS system to
optimize the performance

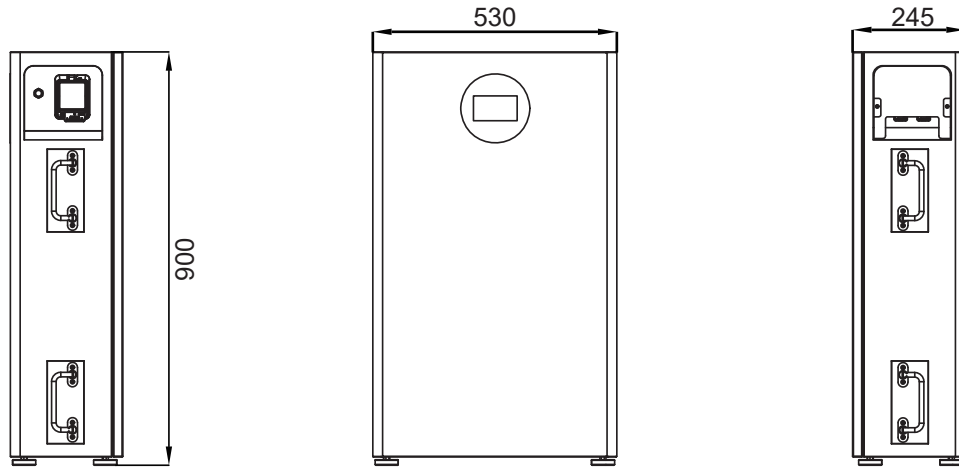


Cells cycle times
≥6000 cycles



Breakthrough Space Utility
Uncompromised Power

 **SUNKET -ESS**



Electrical Characteristics

LFP 16kWh / LV

Module Type	LFP 16kWh / LV
Nominal Energy (at 25°C)	16kWh
Usable Energy (90%DOD)	14.4kWh
Nominal Dis-/ Charge Power	8kW
Peak Power ^(Only Discharge)	9.2kW for 3 seconds
Max Charge Current	157A
Operating Voltage Range	43.2~58.4V
Nominal Voltage	51.2Vd.c
Weight	120kg
Dimensions (mm)	530*900*245mm
Certificates	UN38.3 / UL1973
Operating Condition	Indoor or outdoor
Operating Temperature Charge	From 0~60°C
Operating Temperature Discharge	From -30~60°C
Humidity	Up to 90% (non- condensing)
Pollution Degree	3
Over Voltage Category	II
Cooling Type	Natural cooling
IP Rating	IP 65
Protective Class	I
Max. Number of Parallel	16
Cycle Life	≥ 6000 (@25°C ± 2°C , 0.5P / 0.5P, 70% EOL)
Communication Interface	CAN / RS485
Protection Mode	Triple hardware protection
Battery Protection	Over-current / Over-voltage / Short circuit / Under-voltage

Compatible Inverters



Battery	Description
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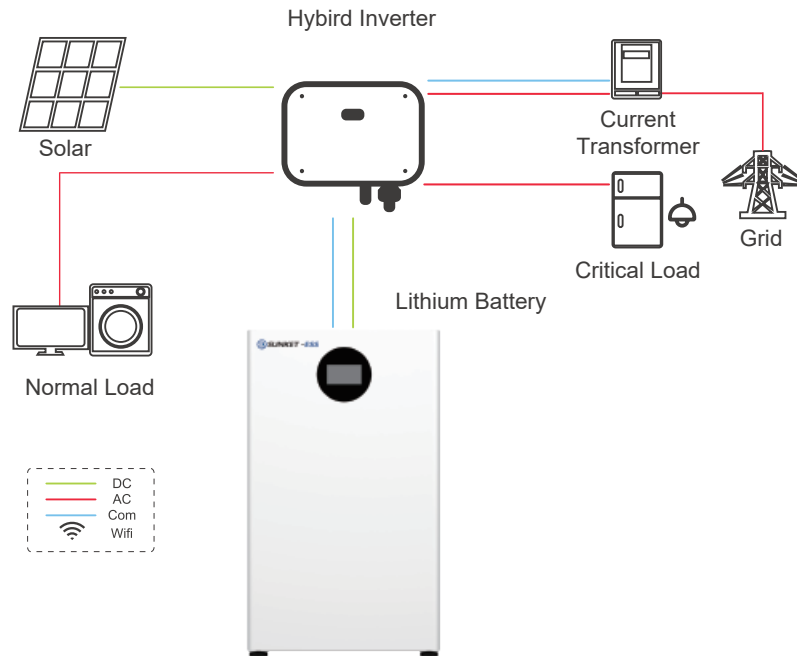
Standard configuration:

① User Manual x1
② Quality Report x1
③ Screw M6 x1
④ Screw M4 x2
⑤ USB to RS-485 Converter x1
⑥ Protective Cover x1

⑦ Communication Line x1
⑧ Red Power Cable x1
⑨ Ground Wire x1
⑩ Black Power Cable x1



Low Voltage 16kWh Hybrid PV System:



POWER
SWITCH



BAT+
BAT-
CAN
RS485A
RS485B

- SWITCH: On or off the current circuit
- CAN: Inverter communication
- RS485A: RS485 interface, used for battery parallel communication, connecting RS485B of another battery
- RS485B: RS485 interface, used for battery parallel communication, connecting RS485A of another battery
- BAT+: Battery positive terminal connection position
- BAT-: Battery negative terminal connection position
- POWER: Power on or off the control battery

Battery Description

APP

- Bluetooth APP Monitoring
- Portable Control
- Low Power (Bluetooth LE)
- Local monitoring mode for battery
- Quick Pairing
- No Internet Needed

- Intelligent Data Analysis
- Real-time Equipment Monitoring

Packing Configuration

20'GP **90** PIECES CONTAINER

40'HQ **178** PIECES CONTAINER

Packing Configuration

Wooden Box Dimensions	1016×591×410mm	
Container	20'GP	40'HQ
Pieces per Pallet	1	1
Pallets per Container	90	178
Pieces per Container	90	178