LFP 16kWh / LV
51.2V 314Ah
RECHARGEABLE LITHIUM BATTERY

Scalable up to
257kWh 16 (Parallel)

IP65 Rating
Triple hardware protection

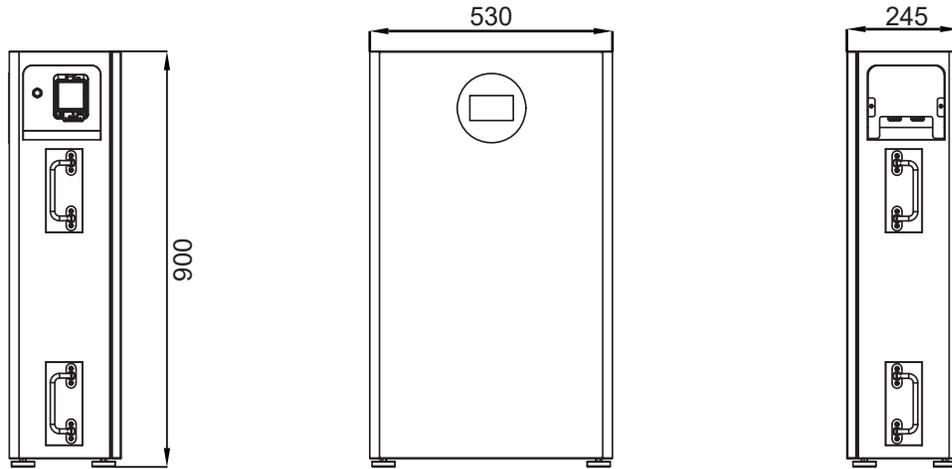Smart BMS system to
optimize the performance

Cells cycle times
6000 cycles

Breakthrough Space Utility
Uncompromised Power

SUNKET®-ESS

SUNKET®-ESS

530 | 900 | 245

Electrical Characteristics

Module Type	LFP 16kWh / LV
Nominal Capacity (at 25℃)	16kWh
Usable Capacity (90%DOD)	14.4kWh
Nominal Dis-/ Charge Power	10kW
Peak Power(Only Discharge)	11.6kW for 3 seconds
Max Charge Current	200A
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℃
Operating Temperature Discharge	From -30~60℃
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
Warranty	10 years
Life Span	>15 years
Communication Interface	CAN / RS485
Protection Mode	Triple hardware protection
Battery Protection	Over-current / Over-voltage / Short circuit / Under-voltage

Compatible Inverters

MEGAREVO GROWATT solis Deye victron energy

SOFAR SOLAR Afore 艾伏 AmenSolar LUXPOWER TEK

Battery	Description

Standard configuration:

① User Manualx1	⑦ Red Power Cable x1
② Screw M6 x1	⑧ Ground Wire x1
③ Screw M4 x2	⑨ Black Power Cable x1
④ USB to RS-485 Converter x1	
⑤ Protective Cover x1	
⑥ Communication Line x1	

①   ②   ③   ④   ⑤

⑥   ⑦   ⑧   ⑨

Low Voltage 16kW Hybird PV System:

Hybird Inverter

Solar

Current Transformer

Critical Load

Grid

Lithium Battery

Normal Load

DC
AC
Com
Wifi
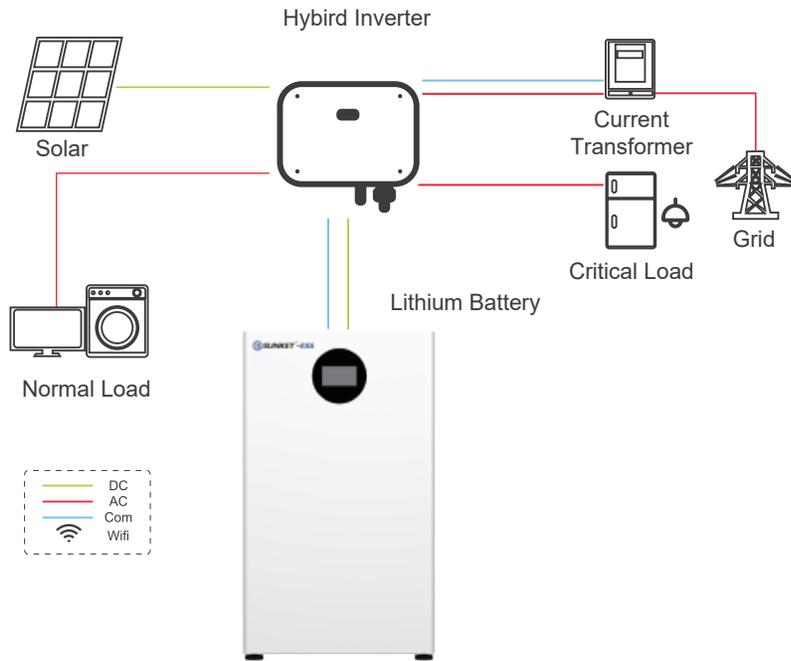
POWER

SWITCH

BAT+

BAT-

CAN

RS485A

RS485B

- SWITCH: On or off the current circuit

- CAN: Inverter communication

- RS485A: RS45 interface, used for battery parallel communication, connecting RS485B of another battery

- RS485B: RS45 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

Local monitoring mode for battery

Quick Pairing

Portable Control

No Internet Needed

Low Power (Bluetooth LE)

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