LFP 20-76kWh / HV

LFP 5000 / HV 51.2V 100Ah Each Battery PACK

RECHARGEABLE LITHIUM BATTERY





High inverter compatibility

Compatible with most inverters, resulting in increased battery system flexibility and efficiency.

CANbus standard connection

The CANbus standard connection enables reliable communication and efficient data transfer between electronic devices in PV energy storage system applications.

Scalable up to 1000V

The system is scalable up to 1000V, offering flexibility for high-voltage applications while maintaining safety and efficiency.

>15 Years life span

The lifespan exceeds 15 years, ensuring long-lasting durability and reliability.

Cells cycle times 6000 cycles

The cells have a cycle life of up to 6,000 cycles, providing exceptional longevity and performance.

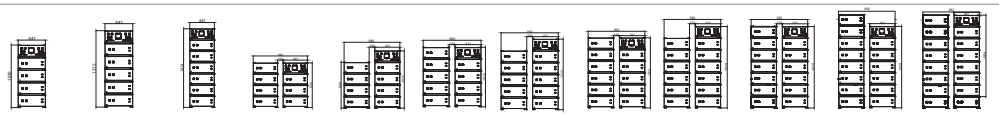
Smart BMS system to optimize the performance

The advanced Smart BMS system optimizes performance by ensuring efficient management and protection of the battery.

SUNKET-ESS

Electrical Characteristics

LFP 20-76kWh / HV

Model	LFP 20kWh / HV	LFP 25kWh / HV	LFP 30kWh / HV	LFP 35kWh / HV	LFP 40kWh / HV	LFP 46kWh / HV	LFP 51kWh / HV	LFP 56kWh / HV	LFP 61kWh / HV	LFP 66kWh / HV	LFP 71kWh / HV	LFP 76kWh / HV
Battery Type	LiFePO4											
Battery Capacity	100Ah											
Battery Pack Energy	5.12kWh (LFP 5000/HV)											
Battery packs Number												
	4	5	6	7	8	9	10	11	12	13	14	15
Nominal Energy (@25°C)	20.48kWh	25.60kWh	30.72kWh	35.84kWh	40.96kWh	46.08kWh	51.20kWh	56.32kWh	61.44kWh	66.56kWh	71.68kWh	76.8kWh
Usable Energy (90%DOD)	18.43kWh	23.04kWh	27.64kWh	32.25kWh	36.86kWh	41.47kWh	46.08kWh	50.68kWh	55.29kWh	59.90kWh	64.51kWh	69.12kWh
Nominal Voltage	204.8V	256.0V	307.2V	358.4V	409.6V	460.8V	512.0V	563.2V	614.4V	665.6V	716.8V	768.0V
Operating Voltage Ranges	172.8~ 230.4V	216~ 288V	259.2~ 345.6V	302.4~ 403.2V	345.6~ 460.8V	388.8~ 518.4V	432~ 576V	475.2~ 633.6V	518.4~ 691.2V	561.6~ 748.8V	604.8~ 806.4V	648~ 864V
Weight	337.5±5kg	391±5kg	444.5±5kg	498±5kg	551.5±5kg	605±5kg	658.5±5kg	712±5kg	765.5±5kg	819±5kg	872.5±5kg	926±5kg
Dimension	587±3* 1058±3* 1686±5 mm	587±3* 1058±3* 1686±5 mm	587±3* 1058±3* 1686±5 mm	587±3* 1058±3* 1686±5 mm	587±3* 1058±3* 1686±5 mm	587±3* 1058±3* 1686±5 mm	587±3* 1058±3* 1686±5 mm	587±3* 1058±3* 1686±5 mm	587±3* 1058±3* 1686±5 mm	587±3* 1058±3* 1686±5 mm	587±3* 1058±3* 1686±5 mm	587±3* 1058±3* 1686±5 mm
Charge / Discharge Current — Recommend	50A											
Charge / Discharge Current — Nominal	50A											
Charge / Discharge Current — Peak Discharge (2 mins, 25°C)	50A											
Max.Discharge Current	50A											
Operating Condition	Indoor											
Operating Environment Temperature	-10~54°C											
Relative Humidity	Up to 90%(non-condensing)											
Pollution Degree	3											
Over Voltage Category	II											
Cooling Type	Natural cooling											
Ingress Protection	IP20											
Protecive Class	1											
Cycle Life	≥ 6000 (@25°C ± 2°C , 0.5P / 0.5P, 70% EOL)											
Communication	CAN / RS485											
Protection Mode	Triple hardware protection											
Battery Protection	Over-current / Over-voltage / Short circuit / Under-voltage											

Compatible Inverters

GROWATT

Deye

Afore

SOLINTEG

solis

SOFAR

System Components

LFP 20-76kWh / HV

Model	Description

High voltage box:LFP 5000/HV-UD004

Operating Voltage	150-1000V
Nominal Charge/Discharge Current	50A
Max.Charge/Discharge Current	50A
Operating Temperature Range	-20~55°C
Ingress Protection	IP20
Dimension (W/D/H)	435 × 545 ×178mm
Weight Approximate	15.5kg



High voltage box Standard configuration:

① Power Cable 1.5m x2	⑦ Bracket Screw (20) x1
② Power Cable 0.25m x1	⑧ Communication Line x1
③ Power Cable 0.7m x1	⑨ Handle x2
④ Power Cable 0.7m x1	⑩ User Manual x1
⑤ Support Bracket x4	
⑥ Handle Screw (4) x1	



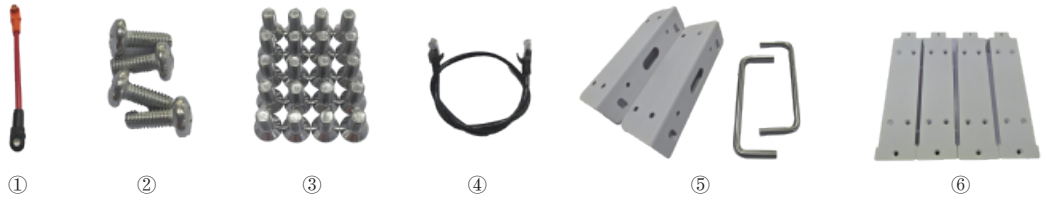
Battery module : LFP 5000/ HV

Battery Type	LiFePO4(LFP)
Nominal Voltage	51.2V
Rated Capacity	100Ah
Rated Energy	5.12kWh
Nominal Charge / Discharge Current	50A /50A
Peak.Discharge Current	50A
Charge Temperature	1~54°C
Discharge Temperature	-10~54°C
Storage Temperature	-20~45°C
Ingress Protection	IP20
Dimension (W/D/H)	435 × 545 × 178mm
Weight Approximate	53.5kg



Battery module Standard configuration:

① Power Cable x1
② Handle screw (4) x1
③ Bracket screw (20) x1
④ Communication line x1
⑤ Handle x2
⑥ Support bracket x4



System Components

LFP 20-76kWh / HV

Model	Description

Optional

Optional 3m power cable

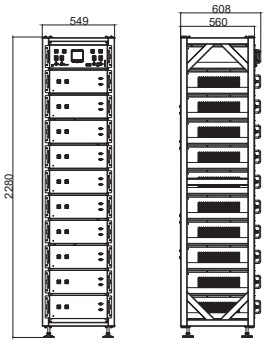


Standard 3m commumication
cable connected to the external device



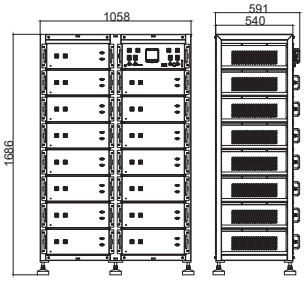
Standard 19inch rack, caninstall 10 pcs batteries
and 1 pcs High Voltage Battery cluster control box

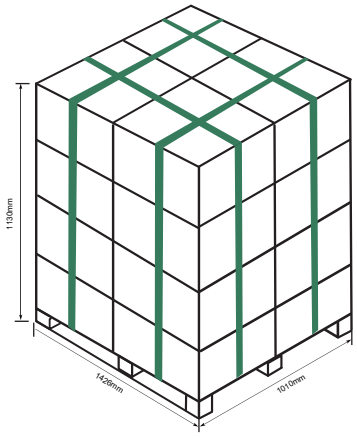
Dimension (W/D/H)	549 × 560 × 2280mm
Weight Approximate	65kg



Standard 19inch rack, caninstall 15 pcs batteries
and 1 pcs High Voltage Battery cluster control box

Dimension (W/D/H)	1058 × 540 × 1686mm
Weight Approximate	150kg





16
PIECES
PALLET

Packing Configuration

Pallet Dimensions	1426×1010×1130mm	
Container	20'GP	40'HQ
Pieces per Pallet	16	16
Pallets per Container	16	26
Pieces per Container	256	416

Specifications are subject to change without further notification
SKT-EN-2026V1.0 ©Copyright 2026 Sunket