

LFP 10-77kWh / HV

51.2V 100Ah Each Block

LiFePO4 BATTERY

- High inverter compatibility
- Natural cooling system
- >15 Years life span
- Reliable LFP cells
- Scalable up to 1000V
- Cells cycle times 6000 cycles
- CANbus standard connection
- IP20 Rating
  Triple hardware protection
- Smart BMS system to optimize the performance

MSDS
UN 38.3

SUNKET®-ESS

SUNKET®-ESS

LFP 10-77kWh / HV 51.2V 100Ah

Electrical Characteristics

Module Type	LFP 10kWh/HV	LFP 15kWh/HV	LFP 20kWh/HV	LFP 26kWh/HV	LFP 31kWh/HV	LFP 36kWh/HV	LFP 41kWh/HV
Nominal Capacity(at 25℃)	10.24kWh	15.36kWh	20.48kWh	25.60kWh	30.72kWh	35.84kWh	40.96kWh
Usable Capacity（90% DOD)	9.2kWh	13.8kWh	18.4kWh	23.0kWh	27.6kWh	32.2kWh	36.8kWh
Battery Module	LFP 5000 / HV : 51.2V 100Ah						
Number of Modules	2	3	4	5	6	7	8
Nominal Voltage	102.4V	153.6V	204.8V	256.0V	307.2V	358.4V	409.6V
Operating Voltage Ranges	86-116V	129-174V	172-232V	215-290V	258-348V	301-406V	344-464V
Nominal Dis-/Charge Current	100 / 50A						
Weight	103.0kg	154.5kg	206.0kg	257.5kg	309.0kg	360.5kg	412.0kg
Dimension(mm)	590*1022*1610						

Module Type	LFP 46kWh/HV	LFP 51kWh/HV	LFP 56kWh/HV	LFP 61kWh/HV	LFP 67kWh/HV	LFP 72kWh/HV	LFP 77kWh/HV
Nominal Capacity(at 25 ℃)	46.08kWh	51.20kWh	56.32kWh	61.44kWh	66.56kWh	71.68kWh	76.80kWh
Usable Capacity（90% DOD)	41.4kWh	46.0kWh	50.6kWh	55.2kWh	59.8kWh	64.4kWh	69.0kWh
Battery Module	LFP 5000 / HV : 51.2V 100Ah						
Number of Modules	9	10	11	12	13	14	15
Nominal Voltage	460.8V	512.0V	563.2V	614.4V	665.6V	716.8V	768.0V
Operating Voltage Ranges	387-522V	430-580V	473-638V	503-696V	546-754V	589-812V	632-870V
Nominal Dis-/Charge Current	100 / 50A						
Weight	463.5kg	515.0kg	566.5kg	618.0kg	669.5kg	721.0kg	772.5kg
Dimension(mm)	590*1022*1610						

Operating Condition	Indoor
Operating Temperature Charge	From 0~45°C
Operating Temperature Discharge	From -10~50°C
Storage Temperature	From -20~50°C
Humidity	Up to 90% (non- condensing)
Pollution Degree	3
Over Voltage Category	II
Cooling Type	Natural cooling
IP rating	IP20
Protective Class	I
Max. Number in a cluster	15
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

GROWATT, Deye, SOFAR SOLAR, solis, ThinkPower, SOLINTEG INTEGRATE SOLAR INTELLIGENTLY, Afore 艾伏, SMA

Specifications are subject to change without further notification

SKT-EN-2024V1.0 ©Copyright 2024 Sunket