

Shark
TOPSUN

LiFePO₄



PRODUCT FEATURES



LED light strips



Light weight, Small size



Long cycle life



Green environmental protection pollution-free



Bluetooth, WiFi monitoring,
Wifi remote upgrade.



Over Current Protection, Short Circuit Protection
Over-discharge Protection, Over-charge Protection
Thermal Protection



In the extreme performance safety test, the
battery will not catch fire, explode, leak, and be
safer to use.



Internal use of LiFePO4 battery

PRODUCT APPLICATIONS

Solar Energy Storage Off-grid back up



INVERTER MANUFACTURER





LCD



BLUETOOTH


12.8V 100Ah

12.8V 200Ah

25.6V 200Ah

Items	Specifications		
Cell	LiFePO4 12.8V	LiFePO4	LiFePO4
Nominal Voltage	100Ah	12.8V	25.6V
Rated Capacity	1280wh	200Ah	200Ah
Energy	4S4P	2560wh	5120wh
Maximum number of series and parallel connections	50A	4S4P	2S2P
Recommend Charge /Discharge Current	100A@25±2 °C	60A	60A
Max.Continuous Charge Current	100A@25±2 °C	200A@25±2°C	200A@25±2 °C
Max.Continuous Discharge Current	1280W@25±2 °C	200A@25±2°C	200A@25±2 °C
Max.Continuous Output Power	100A	2560W@25±2°C	5120W@25±2 °C
Battery Management System (BMS)Board	10V -14.6V	200A	200A
Working Voltage Range	80%	10V -14.6V	20V -29.2V
Recommended depth of battery charge and discharge		80%	80%
Cycle Life	3000 times (25°C±2,0.5C,80% SOC)	3000 times (25°C±2,0.5C,80% SOC)	3000 times (25°C±2,0.5C,80% SOC)
Charge Method	CC/CV	CC/CV	CC/CV
Standard charge method	Charge with 0.5C constant current and14.4V constant voltage, charge to 14.4V. continue charging till current decline to <0.05C	Charge with 0.3C constant current and14.4V constant voltage, charge to 14.4V. continue charging till current decline to <0.05C	Charge with 0.3C constant current and28.8V constant voltage, charge to 28.8V. continue charging till current decline to <0.05C
Standard discharging method	0.5C constant current discharge to 10V	0.3C constant current discharge to 10V	0.3C constant current discharge to 20V
Internal Resistance	<10mΩ	<10mΩ	<10mΩ
Dimension	332*173*220mm	533*207.5*218mm	520*267.5*221mm
Housing Material	ABS	ABS	ABS
Housing Material	IP54	IP54	IP54
Temperature Range	Charge:0°Cto 50°C/32°Fto 122° F		
	Discharge:-20°C to 60°C/-4°Fto 140°F		
	Storage:-10°C to 50°C/14°F to 122°F		

Much better than
A-grade battery cell/High
quality/Support Blue-
tooth connection.



12.8V 200Ah



12.8V 300Ah

Items	Specifications	
Cell	LiFePO4	LiFePO4
Nominal Voltage	12.8V	12.8V
Rated Capacity	200Ah	300Ah
Energy	2560wh	3840wh
Maximum number of series and parallel connections	4S4P	4S4P
Recommend Charge /Discharge Current	60A	60A
Max.Continuous Charge Current	200A@25±2 °C	200A@25±2 °C
Max.Continuous Discharge Current	200A@25±2 °C	200A@25±2 °C
Max.Continuous Output Power	2560W@25±2 °C	2560W@25±2 °C
Battery Management System (BMS)Board	200A	200A
Working Voltage Range	10.8V -14.4V	10.8V -14.4V
Recommended depth of battery charge and discharge	80%	80%
Cycle Life	3000 times (25°C±2,0.5C,80% SOC)	3000 times (25°C±2,0.5C,80% SOC)
Charge Method	CC/CV	CC/CV
Standard charge method	Charge with 0.3C constant current and 14.4V constant voltage, charge to 14.4V. continue charging till current decline to <0.05C	Charge with 0.3C constant current and 28.8V constant voltage, charge to 28.8V. continue charging till current decline to <0.05C
Standard discharging method	0.3C constant current discharge to 10.8V	0.3C constant current discharge to 10.8V
Reference Weight	30kg	40kg
Dimension	385*492*182mm	465.3*418*252.8mm
Housing Material	SPCC	SPCC
Housing Material	IP21	IP21
Temperature Range	Charge:0°Cto 50°C/32°Fto 122° F	
	Discharge:-20°C to 60°C/-4°Fto 140°F	
	Storage:-10°C to 50°C/14°F to 122°F	

Much better than
A-grade battery cell/High
quality/Support Blue-
tooth connection.



25.6V 200Ah



25.6V 300Ah

Items	Specifications	
Cell	LiFePO4	LiFePO4
Nominal Voltage	25.6V	25.6V
Rated Capacity	200Ah	300Ah
Energy	5120wh	7680wh
Maximum number of series and parallel connections	2S2P	2S2P
Recommend Charge /Discharge Current	60A	60A
Max.Continuous Charge Current	200A@25±2 °C	200A@25±2 °C
Max.Continuous Discharge Current	200A@25±2 °C	200A@25±2 °C
Max.Continuous Output Power	5120W@25±2 °C	5120W@25±2 °C
Battery Management System (BMS)Board	200A	200A
Working Voltage Range	21.6V -28.8V	21.6V -28.8V
Recommended depth of battery charge and discharge	80%	80%
Cycle Life	3000 times (25°C±2,0.5C,80% SOC)	3000 times (25°C±2,0.5C,80% SOC)
Charge Method	CC/CV	CC/CV
Standard charge method	Charge with 0.3C constant current and 28.8V constant voltage, charge to 28.8V. continue charging till current decline to <0.05C	Charge with 0.3C constant current and 28.8V constant voltage, charge to 28.8V. continue charging till current decline to <0.05C
Standard discharging method	0.3C constant current discharge to 21.6V	0.3C constant current discharge to 21.6V
Reference Weight	54kg	65kg
Dimension	570*506*185mm	485*556*256mm
Housing Material	SPCC	SPCC
Housing Material	IP21	IP21
Temperature Range	Charge:0°C to 50°C/32°F to 122°F	
	Discharge:-20°C to 60°C/-4°F to 140°F	
	Storage:-10°C to 50°C/14°F to 122°F	

Cells Contact System/
Active Balancing/Wifi /Bluetooth



51.2V 200Ah

Cells Contact System/
Wifi /Bluetooth



51.2V 280Ah

Cells Contact System/
Wifi /Bluetooth



51.2V 320Ah

Items	Characteristics		
Nominal Voltage	51.2 V	51.2 V	51.2 V
Working voltage	43.2-57.6V	43.2-57.6V	43.2-57.6V
Nominal Capacity	200AH	280AH	320AH
Total Capacity	10240Wh	14336Wh	16384Wh
Communication	CAN/RS232/RS485	CAN/RS232/RS485	CAN/RS232/RS485
Efficiency	>96%	>96%	>96%
Recommended Charge Current	<100A	<150A	<150A
Max Charge current	150A	200A	200A
Recommended Charge Voltage	57.6	57.6	57.6
BMS Charge Cut-off Voltage	<57.6 V (3.6V/Cell)	<57.6 V (3.6V/Cell)	<57.6 V (3.6V/Cell)
Balancing Starting Voltage	3.4V/Cell	3.4V/Cell	3.4V/Cell
Recommended Discharge Current	<100A	<150A	<150A
Maximum Output Power	7680W	10240W	10240W
Max Continuous Discharge Current	150 A	200A (20 mins)	200A (20 mins)
Peak Discharge Current	160 A (1s)	210 A (1s)	210 A (1s)
BMS Discharge Cut-off current	200 A (500ms)	250 A (500ms)	250 A (500ms)
BMS Discharge Cut-off Voltage	44.8V (1s) (2.8V/Cell)	44.8V (1s) (2.8V/Cell)	44.8V (1s) (2.8V/Cell)
Recommended Discharge DOD	80%@0.5C	80%@0.5C	80%@0.5C
Dimensions (L*W*H)	913*630*175mm	905*630*236mm	905*630*236mm
Reference Weight	120Kg	145Kg	145Kg
Terminal Type	Quick Connector	Quick Connector	Quick Connector
Case Material	SPCC	SPCC	SPCC
Protection Class	IP21	IP21	IP21
Discharge Temperature	-20-60°C	-20-60°C	-20-60°C
Charge Temperature	0-45°C	0-45°C	0-45°C
Storage Temperature	10-30°C	10-30°C	10-30°C
BMS High Voltage Cut-off	65°C	65°C	65°C
Module parallel	Up to 15Units ,Suggest 8 Units Max		
Alarms	Over Charge/Over Discharge/Over Current/Over Temperature/Short Circuit		
	Each Battery has Smart BMS,Breaker		
Monitoring and Protection	DEYE /SOLIS/Growatt /Voltronic Power/Goodwe/		
Compatible Inverters	SMA/Victron/SOROTEC/MUST/Sacolar etc.		

Cells Contact System/
Active Balancing/Wifi /Bluetooth



51.2V 200Ah

Cells Contact System/
Inverter protocol selected on screen/
Wifi /Bluetooth



51.2V 280Ah

Items	Characteristics	
Nominal Voltage	51.2 V	51.2 V
Working voltage	43.2-58.4V	43.2-58.4V
Nominal Capacity	200AH	280AH
Total Capacity	10240Wh	14336Wh
Communication	CAN/RS232/RS485	CAN/RS232/RS485
Efficiency	>96%	>96%
Recommended Charge Current	75A	<150A
Max Charge current	150A	200A
Recommended Charge Voltage	57.6V	57.6V
BMS Charge Cut-off Voltage	58.4 V (3.6V/Cell)	58.4 V (3.6V/Cell)
Balancing Starting Voltage	3.4V/Cell	3.4V/Cell
Recommended Discharge Current	<100A	<150A
Maximum Output Power	7680W	10240W
Max Continuous Discharge Current	150 A	200A
Peak Discharge Current	160 A (1s)	210 A (1s)
BMS Discharge Cut-off current	200 A (500ms)	250 A (500ms)
BMS Discharge Cut-off Voltage	44.8V (1s) (2.8V/Cell)	44.8V (1s) (2.8V/Cell)
Recommended Discharge DOD	80%@0.5C	80%@0.5C
Dimensions (L*W*H)	483*177*830mm	550*830*195mm
Reference Weight	100Kg	129Kg
Terminal Type	Quick Connector	Quick Connector
Case Material	SPCC	SPCC
Protection Class	IP21	IP21
Discharge Temperature	-20-60℃	-20-60℃
Charge Temperature	0-45℃	0-45℃
Storage Temperature	10-86℃	10-30℃
BMS High Voltage Cut-off	65℃	65℃
Cycle Life	≥6000@25℃, 80%DOD	
Certifications	CE (battery) CE(cells) UN38.3 (battery)	
Shipping Classification	UN 38.3, MSDS, CLASS 9	

Inverter protocol selected
on screen/ Wifi /Bluetooth



51.2V 304Ah

Inverter protocol selected
on screen/ Wifi /Bluetooth



51.2V 320Ah

Inverter protocol selected
on screen/ Wifi /Bluetooth



51.2V 600Ah

Items	Characteristics		
Nominal Voltage	51.2 V	51.2 V	51.2 V
Working voltage	43.2-58.4V	43.2-58.4V	43.2-58.4V
Nominal Capacity	304AH	320AH	600AH
Total Capacity	15564Wh	16384Wh	30720Wh
Communication	CAN/RS232/RS485	CAN/RS232/RS485	CAN/RS232/RS485
Efficiency	>96%	>96%	>96%
Recommended Charge Current	<150A	<150A	150A
Max Charge current	200A	200A	200A
Recommended Charge Voltage	57.6V	57.6V	57.6V
BMS Charge Cut-off Voltage	<57.6 V (3.6V/Cell)	<57.6 V (3.6V/Cell)	<57.6 V (3.6V/Cell)
Balancing Starting Voltage	3.4V/Cell	3.4V/Cell	3.4V/Cell
Recommended Discharge Current	150A	150A	150A
Maximum Output Power	10240W	10240W	10240W
Max Continuous Discharge Current	200 A	200 A	200 A
Peak Discharge Current	210A (1s)	210 A (1s)	210 A (1s)
BMS Discharge Cut-off current	250 A (500ms)	250 A (500ms)	250 A (500ms)
BMS Discharge Cut-off Voltage	44.8V (1s) (2.8V/Cell)	44.8V (1s) (2.8V/Cell)	44.8V (1s) (2.8V/Cell)
Recommended Discharge DOD	80%@0.5C	80%@0.5C	80%@0.5C
Dimensions (L*W*H)	550*830*195mm	550*830*195mm	960*670*255mm
Reference Weight	130Kg	130Kg	275Kg
Terminal Type	Quick Connector	Quick Connector	Quick Connector
Case Material	SPCC	SPCC	SPCC
Protection Class	IP21	IP21	IP21
Discharge Temperature	-20-60°C	-20-60°C	-20-60°C
Charge Temperature	0-45°C	0-45°C	0-45°C
Storage Temperature	10-50°C	10-50°C	10-50°C
BMS High Voltage Cut-off	65°C	65°C	65°C
Cycle Life	≥6000@25°C, 80%DOD		
Certifications	CE (battery) CE(cells) UN38.3 (battery)		
Shipping Classification	UN 38.3, MSDS, CLASS 9		



High-voltage, stack-able battery system

High quality, WiFimonitoring,Wifiremoteupgrade. A cutting-edge, high-voltage, stack-able battery system tailored forhigh-capacity residential energy storage solutions.

Basic Parameters	3-Modules	4-Modules	5-Modules	6-Modules	7-Modules	8-Modules
Model	HV-CUBE 15.36	HV-CUBE 20.48	HV-CUBE 25.6	HV-CUBE 30.72	HV-CUBE 35.84	HV-CUBE 40.96
Battery type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Nominal voltage	153.6V	204.8V	256.0V	307.2V	358.4V	409.6V
Nominal capacity	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh
Max charge and discharge current	100A	100A	100A	100A	100A	100A
Max charge and discharge power	15.36kW	20.48kW	25.6kW	30.72kW	35.84kW	40.96kW
Communication	CAN/RS485/WIFI					
Weight	182Kg	232Kg	282Kg	332Kg	382Kg	432Kg
Dimensions (L*W)	590*405mm					
Dimensions (H)	675mm	835mm	995mm	1155mm	1315mm	1475mm
Working temeprature range	charge0~45 °C, discharge-20~55 °C					
Efficiency	≥97%					
Cycle life	6000cycles					
Designed lifespan	≥10 years					
Shell protection grade	IP22					
Shell protection grade	C3+ class anti-corrosion					
Auxiliary heating function	Optional					
Parallel connection	suggest ≤ 4 clusters					
Installation	Floor standing					
Compatible inverter	Afore ,Growatt ,Solis , DEYE ,Pylon,Megarevo ,INVT, and customization					
Certification	CB-IEC62619,CE,UN38.3					



STS RACK-MOUNTED HVS-R60

60kWh High Voltage Rack-mounted Energy Storage System consists of 12 battery packs, each of which consists of 16S-100Ah cells. These are connected in series to a 30KW three-phase hybrid inverter, enabling seamless integration with the grid and loads. The system supports solar energy generation, storage, and charging functions and operates efficiently in temperatures ranging from -20°C to 55°C, making it ideal for various residential, commercial and industrial energy storage applications.

Basic Parameters

Battery cabinet parameters

Battery cabinet size	Specification	Remark
Nominal capacity	575mm (W) X600mm (D) X2150mm H ()	±5mm
Nominal voltage	100Ah	
Standard charging rate	614.4V	192 strings
Maximum continuous discharge rate	0.5C/25°C	
Energy	1C/25°C	1C (100A)
Operating voltage range	60KWh	
Maximum charging voltage of single cell	556.8V-691.2V	
Minimum discharge voltage of single cell	3.60V	Any battery cell
Operating temperature range	2.9V	Any battery cell
Protection level	Charging: 0~55°C, discharging -20~55°C	
Battery Pack Parameters	IP20	
Battery pack size	Specification	Remark
Nominal capacity	482.6mm (W) X550mm (D) X133mm H ()	±0.5mm
Nominal voltage	100Ah	
Standard charging rate	51.2V	16 strings
Maximum continuous discharge rate	0.5C/25°C	
Energy	1C/25°C	
Operating voltage range	5.12KWh	
Maximum charging voltage of single cell	46.4V-57.6V	
Minimum discharge voltage of single cell	3.60V	Any battery cell
Insulation properties	2.9V	Any battery cell
	≥1000Ω/V	