

Outdoor Solar **50kW/100kW** Energy Storage System

Safety & Reliability

- LiFePO4 battery with higher safety & longer lifetime.
- Dual fire protection system design for multiple protection.
- 1+1 redundant design.

Simple & Friendly

- Easy installation, pre-installed before delivery.
- Integrate BMS/EMS to adapt to various application scenarios
- Simple operation & flexible capacity extension upon requirements.
- Backup time with 2-5 hours.

Cost-Effective & High Efficiency

- 100% DOD, improve return on investment.
- High efficiency design to ensure safety & improve refrigerating efficiency.



System Parameters

DC - PV	
Max. PV Voltage	1000V
MPPT Range/Nominal	300V~750V
Max. Input Current/String	36A
Qty.of MPPT	3
Max. Input Power/String	25kW
DC-Battery	
Max. DC Voltage	750V
Min.DC Voltage	350V
Rated Power DC Operating Voltage Range	500V~750V
Max. DC Operating Current	50A*2
Max. DC Input Current	55W
AC Input No.	2
AC-On-Grid	
Rated AC Output Power	50kW
Max. AC Output Power	55kVA
Max.AC Current	80A
Rated AC Voltage	400V
AC Voltage Range	360V~440V
Rated Grid Frequency/Range	50/60Hz $\pm$ 5Hz
AC Current Harmonics	< 3% (100% Load)
AC-Off-Grid	
Rated AC Voltage	400V $\pm$ 3%
AC Voltage Harmonic	< 3% (Linear Load)
Rated Grid Frequency/Range	50/60Hz
Rated AC Output Power	50kW
Max. AC Output Power	55kVA
Efficiency	
Max.Efficiency	97.5%
Protection	
Reverse Protection/Thermal Protection	YES
DC Switch/AC Switch	YES
Power Network Monitoring/Ground Fault Monitoring	YES
Regular Parameters	
Dimension (W*D*H)	1400mm*1080mm*2380mm
Weight	1492KG
Isolation Type	Transformerless isolation (Optional)
Operating Temperature Range	-25°C~+60°C
RH Range	0%~100%,without condensation
Maximum Altitude	4000m (> 3000 derated)
Cooling Method	Intelligent air cooling
Communication Port	RS485/CAN

Technical Data

Basic Technical Parameters	
Cell Chemistry	LiFePO4
Module Energy	5.12 kWh
Module Nominal Voltage	51.2V
Module Capacity	100Ah
Battery Module Qty	10*2
System Energy	102.4kWh
System Nominal Voltage	512V
Operating Voltage Range	456V~576V
Charge/Discharge Efficiency	Max.0.5C
Depth of Discharge	100%
Applicable Certification	IEC62619,UN38.3;IEC61000-6-2/4
General Parameters	
Dimension(W*D*H)	1100mm*1080mm*2380mm
Weight	1430KG
Protection Class	IP54
Anti-Corrosion Grade	C4
Operating Temperature Range	-25C ~ +50°C
RH Range	0%~95%,without condensation
Maximum Altitude	4000m (> 3000 derated)
Installation	Outdoor
Communication Port	Ethernet;CAN
Communication Protocol	CAN,MODBUS TCP/IP
Cooling Method	Air Conditioner