

SUN- Series

All-in-One Energy Storage System

3.6kW / 5.12kWh
7.2kW / 16.08kWh

CE UN38.3



Product Feature >>>



3 in 1 Residential ESS

- Intelligent WIFI & PCS & BMS



High Compatibility

- Provides 33% higher surge power for demanding loads such as refrigerators, air conditioners, and water pumps



High Performance Inverter

- UPS Class Switch time <10ms
- Intelligent
- Overload Protection Mode



Class-A LiFePO4 Battery

- 6000 cycle life, Up to 8-10 Years LiFePO4 battery with high safety and performance



Ultra-large Capacity

- 5.12kWh/16.08kWh LiFePO4 Battery with a backup time of over 2 hours



More Convenient

- 28A I_{max}, PV current better for 210 panels.
- 120A Maximum charging Current, faster charging

Product Data Sheet >>>

Model	SUN3.6U-5-US	SUN7.2U-16-US
Technical Parameters	3.6kW/5.12kWh	7.2kW/16.08kWh
AC Input (GRID)		
Rated Input Voltage	120Vac ±5%	120(L1/N, L2/N)/240Vac(L1/L2)
Input Voltage Range	(90Vac~140Vac)±2%	(85Vac~140Vac)±2%
Rated Grid Frequency	50Hz/60Hz	50Hz/60Hz (Auto detection)
Grid Frequency Range	47±0.3Hz~55±0.3Hz (50Hz) 57±0.3Hz~65±0.3Hz (60Hz)	
Charging Voltage Range	20Vdc-33Vdc	40Vdc-58.6Vdc
Max. Bypass Current	40A	2 pole, 50A/50A(L1/L2)
Max. Efficiency	>95%	>95%
DC Input (PV)		
Max. Input Power	6000W	4500W+4500W
Max. Input Voltage	500Vdc	500Vdc
PV Operating Voltage Range	90Vdc~500Vdc	90Vdc~485Vdc
MPPT Voltage Range	90Vdc~450Vdc	90Vdc~450Vdc
Number of MPPTs	1	2
Strings per MPPT	1	1
Max. MPPT Input Current	27A	16A+16A
Battery Parameters (BAT)		
Battery Capacity	5.12kWh	16.08kWh
Battery Type	LiFePO4 Battery	LiFePO4 Battery
Rated Battery Voltage	25.6V	51.2V
Battery Voltage Range	22.4V~28.8V	44.8V~57.6V
Max. Battery Charging Current (GRID, can be set)	80A	120A
Max. Battery Charging Current (GRID+PV, can be set)	120A	150A
Cycle Life	≥ 6,000 Cycles @ 80% DOD/25°C /0.5C, 60%EOL	
AC Output (LOAD)		
Rated Output Power	3600W	Split Phase: 7200W Single Phase: 6000W
Peak Power	5400VA	Split Phase: 10800VA Single Phase: 10800VA
Overload Capability	(102% < load < 110%) ±10%: Can be sustained for 5 minutes; output shuts off after 5 minutes (110% < load < 125%) ±10%: Can be sustained for 10 seconds; output shuts off after 10 seconds (Load > 125%) ±10%: Can be sustained for 5 seconds; output shuts off after 5 seconds	
Output Voltage	120Vac ±5%	120Vac ±5%(L1/N, L2/N) / 240Vac±5%(L1/L2)
Output Frequency	50Hz±0.3Hz / 60Hz±0.3Hz	50Hz±0.3Hz / 60Hz±0.3Hz
Power Factor	1	
UPS Switching Time	10ms	
General Parameters		
Dimensions (W / H / D)	375*671*255mm	510*835*390mm
Weight	55kg	140kg
Operating Temperature Range	-10~55°C	
Relative Humidity	0~98% RH (no condensation)	
Maximum Operating Altitude	≤2000 m	
Protection Rating	IP21	
Topological Structure	Non-isolated	
Cooling Method	Intelligent Air Cooling	
Display	LCD Display	
Noise	≤60dB	
Communication Interfaces (RS485 / CAN / USB)	RS485 / CAN	
Communication Methods (Wi-Fi / LAN / 4G)	Wi-Fi	
Installation Method	Floor-standing	
Certifications	UN38.3/CE	

* Specifications are subject to change without prior notice.



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