

Portable AC Battery Energy Storage System

Specifications

- A-grade REPT cells ensure superior performance and reliability
- Dual-protection BMS enhances safety against overcharge, discharge, temperature and current
- Stackable battery packs with wire-free design, up to 8 layers
- IP65-rated battery system for high safety protection
- Inverter box with dual AC output, USB charging, waterproof design
- Off-grid PCS function for home storage and outdoor applications



Technical Parameters / Model		P230SK48-5001CT
Inverter output		
Rated Output Power		5000W
Maximum Peak Power		10000W
Rated Output Voltage		230Vac (Single Phase)
Rated Output Frequency		50/60Hz
Battery		
Rated Voltage		51.2V
Operating Voltage Range		43.2~58.4V
Battery Combination		16 Series 1 Parallel
Rated Capacity		100Ah
Total Energy		5.12kwh
Cycle Life		Capacity Decay To 80Ah, Cycle Number ≥5000 Times @80% DOD @ Charge And Discharge 0.5C @25±2°C
Self-Discharge		≤2.5%/ Month
Balanced Method		Passive Balance
Factory Capacity		SOC 55%±5
Charging Voltage		58.4V
Maximum Continuous Charging Current		100A
Maximum Discharge Continuous Current		100A
Discharge Cut-Off Voltage		43.2V
Charge Out-Off Voltage		58.4V
Charging Operating Temperature		0~55 °C
Discharge Operating Temperature		-20~55 °C
Storage Temperature		-20~60°C
Protection Level		IP65
Battery Cell Materials		LiFePO4
Protocol		RS485/CAN
Photovoltaic Input		
MPPT Number		1
Maximum Photovoltaic Input power		6000W
Maximum Input Current		27A
Maximum Photovoltaic Open Circuit Voltage		500Vdc
MPPT Voltage Range		120~430Vdc
Mains/Generator Input		
Input Voltage Range		170~264V
Frequency Range		50/60Hz
Bypass Over Load Current		40A
General Parameters		
System Size/Weight		W635*D420*H190mm / 46.7kg
Inverter Protection Level		IP20
Range Of Working Temperature		-10~50°C, Derating >40°C
Noise		<60dB
Cooling Method		Intelligent Air Cooling
Certification	UN38.3, MSDS, EN IEC 61000-6-3:2021, CE EN IEC 61000-6-3:2021, EN IEC 61000-6-1:2019, EN 62920:2017+A1:2021, EN IEC 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021	