



PORTABLE POWER STATION All-IN-ONE

PPSA 3000W/5000W (LiFePO4 51.2V 100Ah 5.12kWh)

Lithium Iron Phosphate LiFePO4 Battery



Advanced SPWM technology

Adopt fully digital voltage and current double closed-loop control



Two output modes

Two output modes of grid bypass and inverter output, and has the function of uninterrupted power supply



Four charging modes

Grid priority, solar priority and hybrid charging



LCD screen design

dynamic display of system data and operating status.



360° protection

With multiple protection functions, 360° all-round protection.



BMS protection

Smart BMS has complete short-circuit protection

Technical Data	PPSA3000W	PPSA5000W
Grid module	Specification	
Rated input voltage	110/120Vac	220/230Vac
Input voltage range	(170Vac~280Vac) ±2%	(90Vac-280Vac)±2%
Frequency	50Hz/ 60Hz (Auto Detect)	
Frequency range	47±0.3Hz ~ 55±0.3Hz (50Hz)	57±0.3Hz ~ 65±0.3Hz (60Hz)
Overload/short circuit protection	breaker	
Efficiency	>95%	
Transfer time (bypass and inverter)	10ms (typical value)	
AC backfill protection	YES	
Maximum bypass overload current	30A	40A
Output voltage waveform	pure sine wave	
Inverter module		
Rated output power	3000 (VA)	5000 (VA)
Power Factor	1	
Rated output voltage	120Vac	230Vac
Output voltage error	±5%	±5%
Output frequency range	50Hz ± 0.3Hz	60Hz ± 0.3Hz
Efficiency	>91% >92%	>92%
Overload protection	"(102%< load <125%) ± 10%: report an error and shut down the output after 5 minutes; (125%< load <150%) ± 10%: report an error and shut down the output after 10 seconds; Load >150% ±10%: report an error and shut down the output after 5 seconds;"	
Peak power	6000VA	10000VA
On-load motor capacity	2HP	3HP
Output short circuit protection	Breaker	
Bypass Breaker Specifications	30A	40A
Rated battery input voltage	48V (minimum-starting voltage 44V)	
Battery capacity	5120Wh	
Battery voltage range	40.0Vdc~60Vdc ± 0.6Vdc (Under-voltage alarm / shutdown voltage / the over-voltage alarm/over-voltage renew...LCD Screen can be set)	
Power saving mode	load≤50W	
Grid charging		
Maximum-charging current (can be set)	40A	60A
Charging current error	± 5A _{dc}	
charging voltage range	40-58V _{dc}	
Short circuit protection	Circuit breakers and blown fuses	
Circuit Breaker Specifications	40A	
Overcharge protection	Alarm and turn off charging after 1 minute	
Solar charge		
Maximum PV ,Open circuit voltage	145V _{dc}	
PV Operating voltage range	60-145V _{dc}	
MPPT voltage range	60-115V _{dc}	
Battery voltage range	40-60V _{dc}	
Maximum input power	3400W	4000W
Solar charging current range (can be set)	0-60A	0-80A
Charging short circuit protection	Blow fuse	
Wiring protection	Reverse polarity protection	
Maximum Hybrid Charge Current(PV+AC)		
Maximum hybrid charge Current (can be set)	0-120A / 0-100A-140A / 0-140A	
Other Specification		
Charge/ Discharge Temp.	0°C to 45 °C (32F to 113F)/ -20°C to 60°C (-4F to 140F) @60±25% Relative Humidity	
Storage Temp.	0 °C to 40 °C (32F to 104F) @60±25% Relative Humidity	
Humidity range	5% to 95% (Three anti-paint protection)	
Noise	≤60dB	
Heat dissipation	Forced air cooling, adjustable wind speed	
Communication interface	USB/RS485(WiFi/GPRS)/Dry Node Control	
System Protection	Over-temperature, Over-voltage, Over-current, Over-charge, Over-discharge, Over load and Short-circuit protection.	
Applications	Backup Power, Camping, Fishing, Emergency, Picnic, Mobile Office, Car Charging, Livestreaming.	

1: Test conditions:25 °C, 100 % depth of discharge (DOD), 0.2C charge&discharge
2: Refer to battery warranty letter for conditional application