

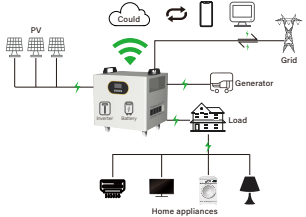
ALL-IN-ONE BATTERY ESS

Features

- One-person installation
- Easy power output expansion
- Without cable connection, plug in & out
- High cycle stability and long lifespan
- Whole system warranty
- Auto under-voltage wakeup
- With WiFi module, Bluetooth module
- Featuring a four-wheel design, equipped with AC output, suitable for both home and outdoor use.

Pure sine wave | BMS Lithium Battery Activation | WiFi optional | High Efficiency | MPPT | Anti-shock design terminal | Output Multiple Priority | Smart battery charging design

System Diagram



TECHNICAL PARAMETER

Mode		A12V2SSPU-1.2KW
Main Parameter		
Battery Chemistry		$LiFePO_4$
Capacity (Ah)		12SAH*2
Nominal Voltage (V)		12.8V
Operating Voltage (V)		10~14.6V
Energy (KWh)		3.2KWh
Charger Discharge Current (A)	Recommend	80A
	Max.	150A
	Peak	160A (30S,25°C)
Master LCD Indicator		LCD (Power,Voltage,Current,Battery bar display) 3LED (working, charge, fault)
IP Rating of Enclosure		IP21
Operating Temperature		Charge:0~+55°C/Discharge:-20°C~+55°C
Storage Temperature		0°C~+35°C
Humidity		5%~95%
Altitude		≤2000m
Cycle Life		>6000 (25°C±2°C,0.2C/0.2C,70%EOL(DOD80%)
Installation		Floor standing
Communication Port		RS485,RS232
Certification		UN38.3,CE
Inverter Specification		
AC Input		
Nominal Input Voltage		208/220/230/240VAC; L+N+PE
Voltage Range (VAC)		170~280Vac For Personal computers 90~280Vac For Home Appliances
Frequency		40~70Hz (Adaptive)
AC Output		
Rated Capacity		1200W
Peak Power		2400VA
Nominal Output Voltage		208/220/230/240VAC; L+N+PE
Voltage Range (Settable)		90~280V (Appliance/Generator mode) 170~264V (UPS mode)
Power Factor		1
Frequency		Line mode: Follow line mode frequency. Battery mode: 50 / 60 Hz ± 0.1%
Switch Time (Line Mode to Battery Mode)		UPS mode: 10ms (Typical) Appliance mode: 15ms (Typical) Generator mode: 60ms (Typical)
Wave Form		Pure Sine Wave
Overload Capacity		60s@102%< Load & <120% Load 10s@120%< Load & <200% Load
Battery Mode		Max Efficiency (Battery Mode)
Parallel Quantity		90.5%@12VDC
Charger (PV / AC)		
PV Charging method		MPPT
MPPT Voltage		17~115VDC
Max PV Input Current / Input Power		18A / 600W
Max PV Open Circuit Voltage		125VDC
Max PV Charge Current		60A
AC Charge Current		2~60A Settable
Max Charge Current (AC + PV)		100A
Interface		
HMI		LCD, 4 buttons + 4 LED lights, can display running/input/output mode
Port		RS232: 5PIN(Pitch2.0mm, Baud 9600
Expansion Interface		2× USB, Type-C, DC 5521, 3-pin plug
Parallel Interface		-
Monitoring		WiFi (Optional)
General Data		
Ingress Protection		IP21
Operating Temperature		-10~55 °C (Reduce output power to 80% above 40 °C)
Environment Humidity		20%~95% (No condensing)
Storage Temperature		-15~45°C (Battery: 0~40°C)
Operating Altitude		Should not exceed 1000m, up to 4000m. Refer to IEC62040-3
Noise		≤50db
product size（packing size (mm)		430*410*453mm / -
Net / Gross Weight (kg)		~56kg / - kg