



# RPS SERIES

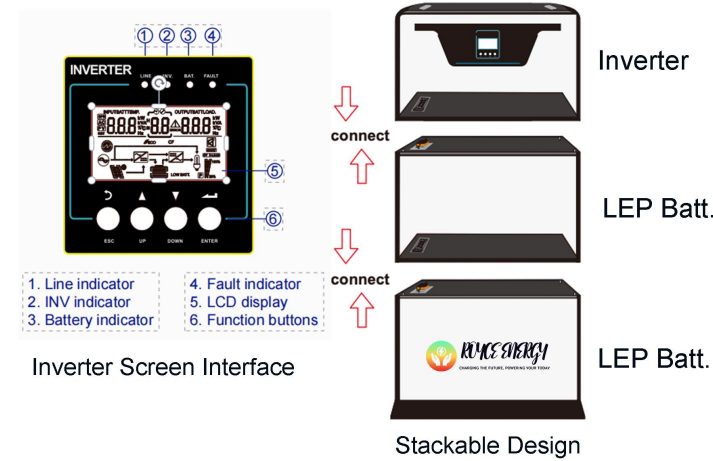
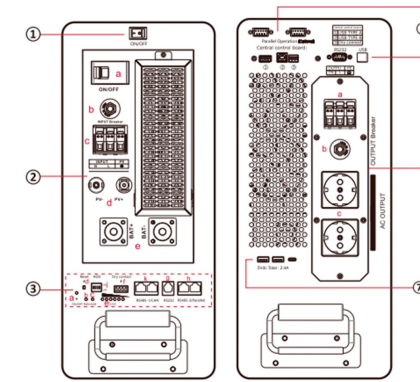
The RPS series combines an inverter and a battery into one product to provide an all-in-one home energy solution for energy storage. By storing excess renewable energy during the day, these solar ESS energy storage systems provide an affordable and self-sufficient way to power home appliances or equipment. This battery energy storage system also has a built-in WIFI and Bluetooth feature, allowing users to manage and monitor system performance from any location at any time. Flexible installation is offered by compact design.

## Features

- Stackable/floor installation design.
- Hybrid inverter, with built-in batteries and MPPT solar controller.
- Protection for over-discharge, overload, over-temperature, short-circuit protection etc.
- Multiple communication functions(RS485/CAN/SNMP/Wifi/Bluetooth monitoring function. ).
- Built in lithium battery with extremely long life 6000 cycles.

## Product Details

- ON/OFF
- Input integration
  - a: Battery switch
  - b: Input Breaker
  - c: Mains power input terminal
  - d: PV input terminal
  - e: Battery input terminal
- BMS working status & communication
  - a: Switch indicator light
  - b: RUN
  - c: ALM
  - d: RST
  - e: S.O.C
  - f: Dry contact output
- Central control board
  - k: CAN
  - g: RS232
  - h: RS485
  - j: ADD
- Output integration
  - a: Mains power output terminal
  - b: Output Breaker
  - c: Mains power output socket
- 5V DC output



## Technical Parameter

Model	RPS 3+2.5	RPS 5+5	RPS 5+10	RPS 5+15
<b>AC Input</b>				
Rated Input Voltage	208/220/230/240 VAC			
Input Voltage Range	Appliance mode: 90~280V; UPS mode: 170~264V			
Frequency Range	50/60Hz(Auto Sensing)			
AC Charging Current Range	100A		80A	
Max. Input Current	130A		90A	
<b>PV Input</b>				
Solar Charging Type	MPPT			
PV Max. Input Power	4 kW		5.5kW	
MPPT Tracking Voltage Range	120-430 VDC			
Max. PV Input Voltage	500 VDC			
PV Charging Current Range	100A		0~80A	
Max. Charging Current (PV+AC)	100A		80A	
<b>Output</b>				
Rated Output Power	3kW		5kW	
Rated Output Voltage	(220V~240V)±5%			
Output Frequency	50/60Hz±0.1%			
Max. Output Current	22.7A			
Peak Power	6000W		10000W	
Overload Capacity	Battery Mode: 1min@102%~110% Load ; 10s@110%~130%Load; 3s@130%~150% Load ; 200ms@>150% Load			
Peak Efficiency	>94% battery mode >99% line mode			
Transfer Time	10ms			
<b>Battery</b>				
Battery Voltage	24VDC		48VDC	
Battery Energy		5.12kWh	10.24kWh	15.36kWh
Cell technology	LiFePO4			
DOD	80%			
<b>Product General Data</b>				
Designed Life-span cycle	6000			
Communication Interface	RS232, RS485, CAN(Standard),SNMP/Wifi/Bluetooth(Optional)			
Display	LCD&LED			
Parallel Interface	RS485&CAN			
Operation Environment Temperature	0~40°C			
Storage Environment Temperature	-15~60°C			
Environment Humidity	20%~95%			
Operation Altitude	<3000m			
Cooling Mode	Active Cooling			
Noise Emission	<50db			
Demension(W*H*D)(mm)	566.2 x 820 x 303		566.2 x 1200x 303	566.2 x 1580 x 303
Weight (kg)	68		118	168

Product specifications are subject to change without notice.

When it comes to reliability, our lithium batteries won't let you down. Get in touch with your local distributor. Visit [www.lithiumbatts.com](http://www.lithiumbatts.com) or talk to one of our Certified ROYCE ENERGY.

Email us: [sales@royce-energy.com](mailto:sales@royce-energy.com)