

Solar Power System ER-2.5KW

Main Features

- Full intelligent digital energy storage equipment;
- Work continuously at full power for a long time;
- Multiple DC output ports, two 12V2A, two USB 5V3A, one Type C 5V3A, and one 100W Type C interface, (compatible with PD3.0PPS and other protocols);
- Built-in long-life and deep-cycle sealed valve-controlled GEL battery;
- Advanced SPWM technology and pure sine wave output;
- Active PFC is adopted for AC charging, power factor is close to 1, and settable constant voltage current limiting output control;
- Adopt the bidirectional isolation topology;
- Advanced MPPT technology, with efficiency no less than 99.5%;
- Bypass automatic switching function (switch to utility mode if the power supply is normal);
- Lightning protection circuit for the Utility input terminal;
- AC output electromagnetic compatibility;
- Overload relay at the Utility input terminal to disconnect the inverter/charger when the fault occurs;
- Circuit breaker at the PV input terminal to ensure the PV array safe running;
- Circuit breaker at the Battery output terminal to ensure the battery safe running;
- Large lattice LCD screen;
- Remote temperature compensation feature for batteries;
- Optional 4G, WiFi module to remote control the inverter/charger by the RS485 com. port;
- Three-stage charging method;



Technical Data

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Solar Power System

Fast Charger/Inverter Combined

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Work Temperature Range	-20°C~55°C, (when the environment temperature exceeds 25°C, the charging power and load power will be reduced appropriately; working of full load is not supported.)		
Enclosure	IP20		
Communication Method	RS485, (4G, Wifi Optional)		
LCD	Monochrome LCD, English interface		
Warranty	2 years		
Dimension (Length x Width x Height)	435X504X574.5mm (Include Wheels And Handles)		
Weight	107kg		



Product Overview



- AC Outlet 1/2 2 LCD
- 3 5V/3A Output Port
- 4 12V/2A Output Port
- 6 RS485 Com. Port
- 6 Type C 100W+Type C 30W

7 Battery Extension Terminal



- 8 PV Input Terminals
- 9 AC Input Port
- 10 AC Input Overload Relay (15A/250VAC)
- **11** Grounding Terminal
- 12 Battery Output Circuit Breaker (125A/60VDC)
- 13 PV Input Circuit Breaker (32A/220VDC)

Technical Data

or for

Ground Wire

Model	HP2522-AL0315S1				
Utility Input					
Rated Utility Work Voltage	220V				
Utility Work Voltage Range	176V~285Vac				
Utility Input Frequency Range	45Hz-65Hz				
Max. Utility Input Current (Charging + Bypass)	Current for charging 3.5A+bypass load current 11.4A@220Vac				
Utility Transfer Time (Bypass To Inverter)	Utility Transfer Time(Bypass to Inverter):<10ms Utility Transfer Time(Inverter to Bypass):0ms				
AC Input Overload Relay	YES				
Inverter Output					
Continuous Output Power(@25°C)	2500W				
Surge Output Power(5s)	4000W				
Rated Output Voltage	220V±3%				
Rated Output Frequency	Default 50Hz/60Hz settable, error ± 0.2%				
Output Wave	Pure Sine Wave				
Output Distortion THD	THD≤3%(Resistive Load)				
Output Soft Start	YES				
	Solar Controller				
Max. PV Input Withstand Voltage	145V				
Solar Controller Type	МРРТ				
MPPT Efficiency	>99.5%				
MPPT Voltage Range	30V~120V				
MPPT Ways	One way				
Max. PV Output Charging Current	30A				
Battery					
Battery Type	GEL				
Rated Battery Voltage	24VDC				
Battery Work Voltage Range	21VDC-32VDC				
Battery Work Temperature Range	Discharging Mode:-20°C~55°C Charging Mode:0°C~40°C				
Rated Battery Capacity	12V · 120Ah*2				
DC Output					
DC 12V Port	12V2A* 2pcs				
USB Port	5V3A* 2pcs				
TYPE C Port	Type C-100W * 1pcs (support PD3.0 and multiple protocols) Type C-5V/3A * 1pcs				
DC Output Switch	YES				

*Note 1: In any case, if PV input voltage exceeds 145V, the equipment will be damaged, which is not within the scope of warranty.

Recommended Component Configuration table

Specifications	Size	Efficiency	Recommended Components	Recommended PV access
Poly	1470x670x28mm	165~170W		2~3 In Series
Mono	1580x710x28mm	220~235W		2~3 In Series
Mono	1570x765x28mm	250~260W		2~3 In Series
Poly	1640x992x30mm	270~280W		1~2 In Series
Poly	1956x992x30mm	330~350W		1~2 In Series
Mono	1755x1038x30mm	370~380W		1~2 In Series
Mono	2094x1038x30mm	450~470W		1 Connection
Mono	1722x1134x28mm	400~415W		1~2 In Series
Mono	2279x1134x30mm	540~555W		1 Connection
Mono	2204x1303x35mm	590~600W		1 Connection
Mono	2384x1303x35mm	650~670W		1 Connection

*This meter shall be checked according to the limit open circuit voltage at the lowest temperature, and shall not exceed 145V under any conditions.

Portable Power Station

