

## EPEVER

## **Features**

- Excellent dust-proof performance with separate compartment design
- Built-in LiFePO4 lithium battery
- Intuitive display of battery SOC via 5-bar indicator lights
- Multiple DC output ports (5VDC/3A ports, 12VDC/2A ports, Type C ports)
- Build-in bluetooth module
- Large-sized LCD screen to monitor and modify system parameters
- Optional 4G or WiFi module to remote control the inverter/charger by the RS485 com. port
- AC input overload relay for disconnecting from the grid when the fault occurs
- Circuit breaker on PV input for equipment safety
- Circuit breaker on battery output for battery safety
- AC charging with PFC technology, high power factor for efficient energy consumption
- Bidirectional high-frequency transformer isolation topology
- Advanced MPPT technology: maximum tracking efficiency≥99.5%
- EMC design on AC output to avoid interference with AC load
- Long-term continuous operation at full power
- Pure sine wave output
- Comprehensive electronic protection

## **Home Battery Backup**



MacBook 7105mAh≈105+times



Coffee Maker 900W≈2.7+hours



Rice Cooker 600W≈4+hours



Electric Oven / Toaster Oven 800W≈3.2hours



iPhone 2942mAh≈262+times



Impact Drill 1100w≈2.2+hours



Television Set 100W≈25+hours

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Car Refrigerator 62W≈40+hours



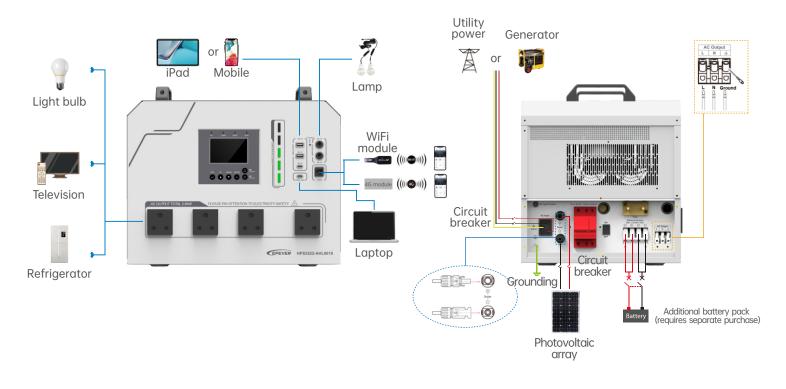




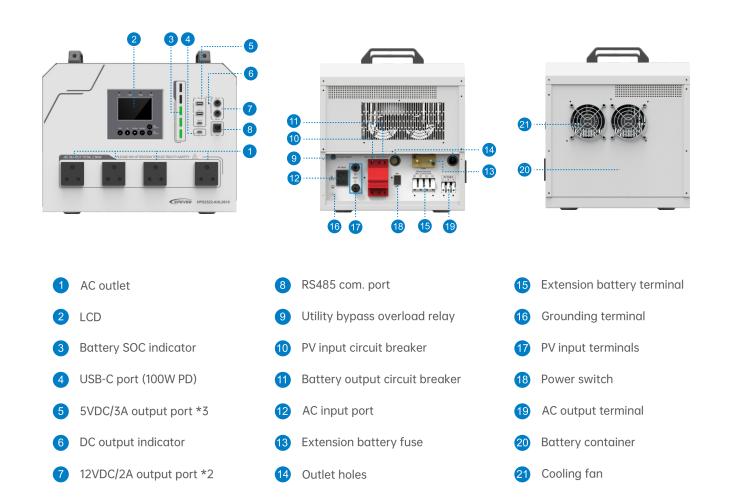
**Technical Specifications** 

Model	HPS2522-AHL0610			
Utility Input				
Utility Rated Voltage	220VAC			
Utility Voltage	200~240VAC			
Failure Voltage	290VAC			
Utility Frequency	50Hz/60Hz			
Utility Maximum Work Current (Charging + Bypass)	15A@220VAC			
	Switch Response Time-Utility to Inverter: ≤20ms			
Switch Response Time	Switch Response Time-Inverter to Utility: ≤20ms			
AC Input Overload Relay	HAVE			
Inverter Output				
Inverter Rated Power (@25°C)	2500W			
4-second Transient Surge Output Power	4500W			
Inverter Output Voltage	220VAC±3%			
Inverter Frequency	50Hz/60Hz±0.2%			
Output Voltage Waveform	Pure sine wave			
Output Voltage Harmonic Distortion Rate	≤3% (Resistive load)			
Output Gradual Start	HAVE			
Solar Controller				
PV Maximum Input Withstand Voltage	95VDC (at minimum operating environment temperature)			
Solar Controller Type	MPPT			
MPPT Maximum Efficiency	≥99.5%			
MPPT Voltage Range	24~76VDC			
MPPT Input Channels	One way			
PV Maximum Charging Current	60A			
Battery				
Battery Type	LFP8S1P			
Battery Rated Capacity	100Ah			
	Length: 160.0±0.8mm			
Cell Dimension	Height: 118.5±0.5mm Width: 50.1±0.5mm			
Battery Rated Voltage	25.6VDC			
Maximum Continuous Charging Current	1C			
Maximum Continuous Discharging Current	1C			
Battery Work Voltage Range	21.0VDC~30.0VDC			
Battery Work Temperature Range	Discharging Mode: -20°C~50°C Charging Mode: 0°C~50°C			
Cycle Times	5000 times			
DC Output				
12V DC Output (x2)	12V==2A, Max. 24W/port, Total 48W			
USB-A Output (x2)	5V==3A, Max. 15W/port, Total 30W			
USB-C Output (x1)	5V3A, Max. 15W			
USB-C Output (x1)	5/9/12/15V==3A, 20V==5A, Max. 100W			
DC Output Switch	HAVE			
Others				
Work Temperature Range	-20°C~50°C (when the environment temperature exceeds 30°C, the charging power and loc power will be reduced appropriately; working of full load is not supported.)			
Enclosure	IP30			
Communication Method	Bluetooth, RS485 (WiFi optional)			
LCD	Monochrome LCD, English interface			
Warranty	Two years			
Dimension (Length x Width x Height)	427x325.4x368mm (with floor mats and handles)			
Net Weight	37.0kg			





**Product Information** 



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## **Recommended Component Configuration Table**

Specification	Size	Power	Recommended PV module	PV voltage range	Recommended PV connection
Polycrystalline	1470x670x28mm	165~170W		30V~95V	2 in series, 2 in parallel 45V
					3 in series, 2 in parallel 68V
Monocrystalline	1580x710x28mm	220~235W		30V~95V	2 in series, 2 in parallel 53V
					3 in series, 2 in parallel 80V
Monocrystalline	1570x765x28mm	250~260W		30V~95V	2 in series, 2 in parallel 53V
					3 in series, 2 in parallel 80V
Polycrystalline	1640x992x30mm	270~280W		30V~95V	1 in series, 2 in parallel 38V
					2 in series, 2 in parallel 76V
Polycrystalline	1956x992x30mm	330~350W		30V~95V	1 in series, 2 in parallel 45V
					2 in series, 2 in parallel 90V
Monocrystalline	1755x1038x30mm	370~380W		30V~95V	1 in series, 2 in parallel 45V
					2 in series, 2 in parallel 90V
Monocrystalline	2094x1038x30mm	450~470W		30V~95V	1 in series, 2 in parallel 53V
Monocrystalline	1722x1134x28mm	400~415W		30V~95V	1 in series, 2 in parallel 40V
					2 in series, 2 in parallel 80V
Monocrystalline	2279x1134x30mm	540~555W		30V~95V	1 in series, 2 in parallel 53V
Monocrystalline	2204x1303x35mm	590~600W		30V~95V	1 in series, 2 in parallel 53V
Monocrystalline	2384x1303x35mm	650~670W		30V~95V	1 in series, 2 in parallel 53V

\*This table should be validated based on the limit open-circuit voltage at the lowest temperature , and it is not allowed to exceed 95V under any conditions.