

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)
- 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 $\geq 99.5\%$
- 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 ≈ 63 +times



Rice Cooker
600W ≈ 2.4 +hours



iPhone
2942mAh ≈ 157 +times



Television Set
100W ≈ 15 +hours



Coffee Maker
900W ≈ 1.6 +hours



Electric Oven / Toaster Oven
800W ≈ 1.9 hours



Impact Drill
1100W ≈ 1.3 +hours

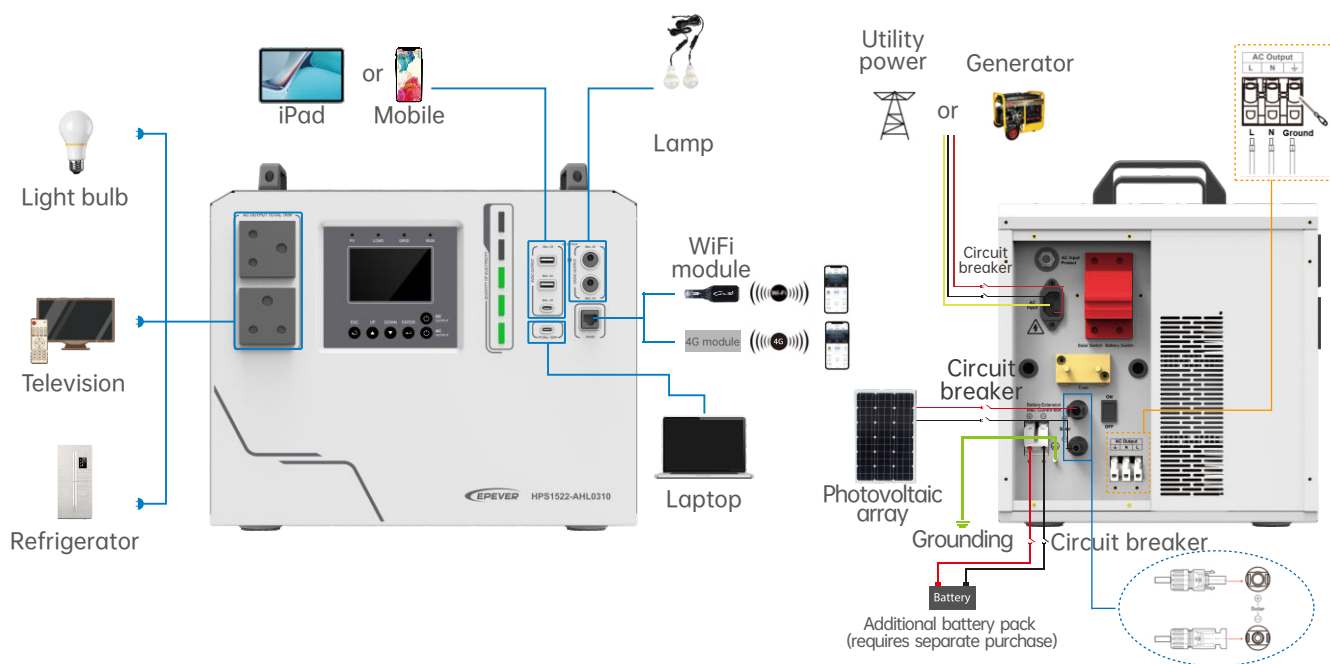


Car Refrigerator
62W ≈ 24 +hours

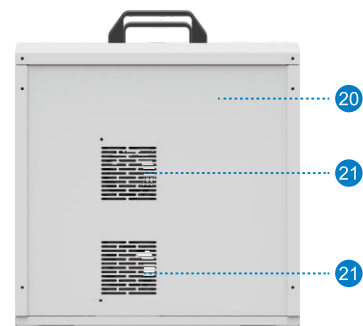
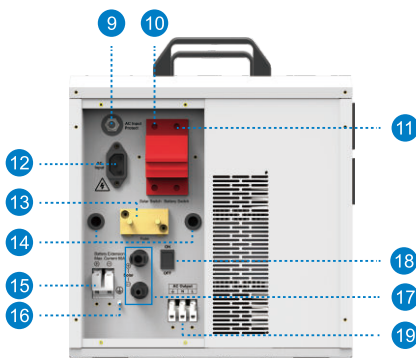
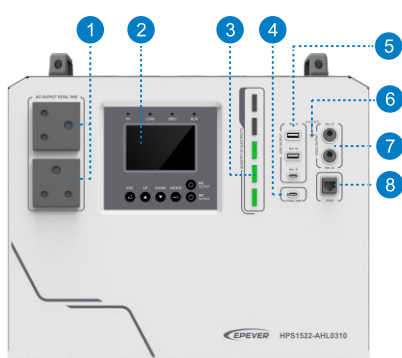


Model	HPS1522-AHL0310
Utility Input	
Utility Rated Voltage	220VAC
Utility Voltage	200~240VAC
Failure Voltage	290VAC
Utility Frequency	50Hz/60Hz
Utility Maximum Work Current (Charging + Bypass)	10A@220VAC
Switch Response Time	Switch Response Time-Utility to Inverter: $\leq 20\text{ms}$ Switch Response Time-Inverter to Utility: $\leq 20\text{ms}$
AC Input Overload Relay	HAVE
Inverter Output	
Inverter Rated Power (@25°C)	1500W
4-second Transient Surge Output Power	2700W
Inverter Output Voltage	220VAC $\pm 3\%$
Inverter Frequency	50Hz/60Hz $\pm 0.2\%$
Output Voltage Waveform	Pure sine wave
Output Voltage Harmonic Distortion Rate	$\leq 3\%$ (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	$\geq 99.5\%$
MPPT Voltage Range	24~76VDC
MPPT Input Channels	One way
PV Maximum Charging Current	30A
Battery	
Battery Type	LFP8S3P
Battery Rated Capacity	60Ah
Cell Dimension	Diameter: 40.0 ± 0.5 -0mm Height: 136.25 ± 0.5 mm
Battery Rated Voltage	25.6VDC
Maximum Continuous Charging Current	1C
Maximum Continuous Discharging Current	1.8C
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	2000 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)	5V=3A, 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 load 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)	385x307x345mm (with floor mats and handles)
Net Weight	24.0kg

Solar System Connection



Product Information



1 AC outlet

2 LCD

3 Battery SOC indicator

4 USB-C port (100W PD)

5 5VDC/3A output port *3

6 DC output indicator

7 12VDC/2A output port *2

8 RS485 com. port

9 Utility bypass overload relay

10 PV input circuit breaker

11 Battery output circuit breaker

12 AC input port

13 Extension battery fuse

14 Outlet holes

15 Extension battery terminal

16 Grounding terminal

17 PV input terminals

18 Power switch

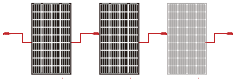
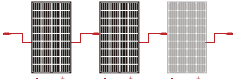
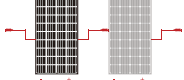
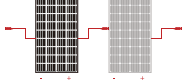
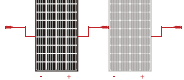
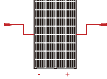
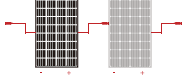
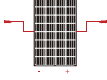
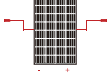
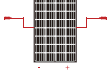
19 AC output terminal

20 Battery container

21 Cooling fan



Recommended Component Configuration Table

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

*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.