

Portable Power Station

ES-E2500-A2-EU



Overview

ES-E2500-A2-EU is a high-power, large-capacity portable power station that can deliver four 230V AC, pure sine wave outputs and self-charge with wall outlets, solar panels, and car chargers. With the two-way inverter flash charging technology, the power station can be fully charged without an adapter in approx. 2.5 hours, and provides 6 types of output ports to power up to 14 different devices at the same time. The UL-certified lithium iron phosphate cells offer large capacity, are safe and stable, and have long cycle life; the built-in BMS offers 8 safety protections, the rigorous QA process ensures safety and reliability. The integrated high-resolution LED display shows battery level and device charge and discharge status at a glance. This power station is suitable for a wide range of application scenarios such as camping, drone-based photogrammetry, self-drive tours, RVs and travel trailers, fishing trips, outdoor mobile live streaming, mobile offices, outdoor work, and emergency power backup.

Features

- High power (2500W), large capacity (2496Wh), four 230V AC, pure sine wave outputs, safe and stable.
- Supports EPS, can get power from the mains through AC output and resume power supply within 30ms after the mains power is interrupted (AC total input power < 1800W).
- Equipped with the smart charge&discharge management system, allows long-time connection to the mains to meet emergency power needs without battery damage.
- Supports smart car charging when charging through the cigarette lighter socket. The power station charges only when the car engine is started, no need to worry about damaging the car battery.
- Supports enhanced overload mode and can supply power for some load without interruption when the load exceeds the AC output power.

- Automatically recognizes the mains frequency and adjusts the AC output frequency without manual adjustment.
- 3 self-charging methods: wall outlets, solar panels, and car chargers.
- Supports the two-way inverter flash charging technology; with a power cable and no adapter, the power station can be fully charged in just 2.5 hours.
- Two charging modes available: slow charging, fast charging.
- Supports MPPT charge control when self-charging with solar panels; with max. 800W input, the power station can self-charge to 100% power in approx. 3.3 hours (solar panels sold separately).
- Indicators on the top show on/off status and battery level (over 20% is green, below 20% is red) at a glance.
- 6 types of output ports can power 14 devices at the same time.
- Independent control switches for AC, DC, and USB ports allow separate power control.
- UL-certified lithium iron phosphate cells, large capacity, safe, stable, and long cycle life (+4000 cycles).
- Built-in BMS provides 8 safety protections including overvoltage protection, overdischarge protection, overcurrent protection, short circuit protection, high temperature protection, low temperature protection, overload protection, battery protection to ensure safety.
- Stringent quality control and assurance process ensures electrical safety.
- CE, FCC, RoHS, UN38.3 certifications.
- The high-resolution LED display shows battery level, input and output power, and remaining charge and discharge time at a glance.
- Robust and durable V-0 grade flame-retardant shell; louvered vents on 2 sides for ventilation while keeping out rainwater, multiple smart temperature-controlled fans, efficient and quiet heat dissipation.
- With dual handles on the top, easy to carry.
- A rubber plug protects the car charger port from dust and water.
- Large area of anti-slip pad on both sides of the bottom ensures stable standing in outdoor use.

Specifications

ES-E2500-A2-EU	
Electrical	Description
Rated capacity	2496Wh, 52000mAh/48V
Type	Lithium iron phosphate battery
Rated voltage	48V
Cycle life	≥4000
Power Input	Description
AC input	Max. 1400W
Anderson input	Car charger: 13.2V/8A; solar panel: 18V to 40V/22A, max. 800W (two charging modes share the Anderson port)

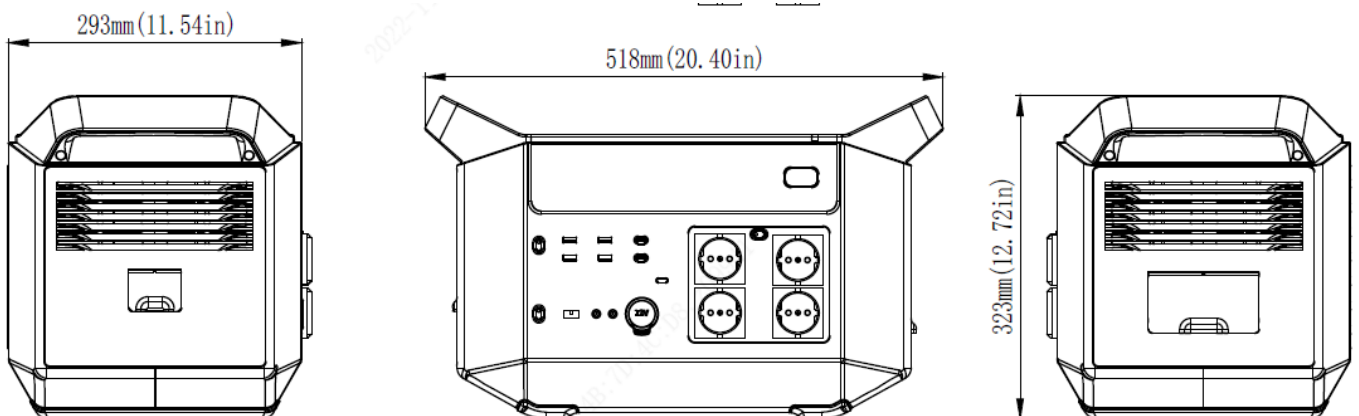
Solar charging system	Support MPPT charge controller
Power Output	Description
USB-C1, 2	PD 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A, max. 100W
USB-A1, 2, 3, 4	QC3.0 5V/3A, 9V/2A, 12V/1.5A, max. 18W
DC5521 ports 1, 2	13V/3A, max. 39W (DC, car charger, and Anderson port share 15A)
Car charger	13V/10A, max. 130W (DC, car charger, and Anderson port share 15A)
Anderson port	13V/15A, max. 195W (DC, car charger, and Anderson port share 15A)
AC output	230V ~ 50Hz/60Hz (pure sine wave)
Rated AC output	2500W
General	Description
Casing material	PC + ABS
Weight	25.5kg/56.2lbs
Dimensions	518*293*323 mm (20.4*11.5*12.7 in)
Operating temperature	-10°C to 45°C/14°F to 113°F
Charge temperature	0°C to 40°C/32°F to 104°F
Operating humidity	20~90%RH (no condensation)
Operating altitude	≤2000m
Storage temperature	-10°C to 45°C/14°F to 113°F
Storage humidity	≤70% RH (no condensation)

Ordering Information

Model	Qty	Remarks
ES-E2500-A2-EU	1	Portable power station (2500W, 2496Wh, 230V AC output, EU)

Dimensions

Dimensions: 518 * 293 * 323 mm / 20.4 * 11.5 * 12.7 in



Zhejiang Uniview Technologies Co., Ltd.

Building No.10, Wanlun Science Park, Jiangling Road 88, Binjiang District, Hangzhou, Zhejiang, China

Email: overseasbusiness@uniview.com; globalsupport@uniview.com

<http://www.uniview.com>

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Product specifications and availability are subject to change without notice.