



IQ PowerPack 1500

The ultimate in reliable backup power at home or on the go, the IQ PowerPack 1500 is a lithium iron phosphate (LFP) battery-based storage device.

Rated for temporary outdoor use, the IQ PowerPack 1500 resists inclement weather and offers 1.5 kWh of battery capacity to power essential appliances during outages or when working or traveling off the grid. The system has 11 output ports and 1500 VA of power that can run large appliances like refrigerators, freezers, or space heaters, as well as smaller electronics like lights, computers, and mobile devices.

Featuring a bright LCD touchscreen and seamless integration with the Enphase App (Enphase Enlighten App) for remote monitoring and control, the IQ PowerPack 1500 is simple to use and easy to maintain. Backed by a 5-year warranty, it can be used on its own or combined with the IQ Portable Panel as an independent source of renewable power. For easy mobility, pair it with the IQ Cart to take the portable power wherever you go.

Unlimited versatility

- Dependable, go-anywhere power with 4 × AC 120 V output ports, 4 × USB-A output ports, 2 × USB-C output ports, and 1 × DC 12 V output port.
- Recharge from AC grid, DC solar, or a DC 12 V input source.
- Use in light rain, sun, or indoors.
- Consistent recharge and discharge performance.

Best-in-class technology

- Fast charging; recharge from 0% to 100% using the AC grid in less than 75 minutes.
- Intelligent IQ8 Microinverter and robust battery management system.
- Control, monitor, and customize locally with a 7" LCD touchscreen, or remotely with the Enphase App via Wi-Fi, Bluetooth, or cellular network.
- Built-in SyncPulse feature autonomously initiates periodic wake cycles during shutdown to perform system diagnostics and apply OTA firmware updates, ensuring optimal readiness.

Certified for safety and reliability

- Certified to UL 2743 standard and adheres to UL 9540A test requirements, the device contains an LFP battery module custom-designed to provide safe and reliable energy storage.
- Certified to UL 1642 safety standards for battery pack safety.
- Certified to FCC electromagnetic interference standard.
- 5-year warranty and 24/7 customer support.



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MODEL NO.	
PES-1515-BL-US	IQ PowerPack 1500 with built-in LFP battery to power AC and DC appliances at home and outdoors Integrated with Enphase IQ8 Microinverter, and a robust battery management system
PHYSICAL CHARACTERISTICS	
Dimensions (L × W × H)	16.5 in × 9.3 in × 13.6 in (420 mm × 235 mm × 345 mm)
Weight	45.9 lb (20.8 kg)
Color	Black
Portable	Yes, built-in handles and optional cart
Display	7" TFT ¹ LCD touchscreen
OUTPUT	
4 × AC 120 V output ports	1,500 VA (max. continuous output power) 3,000 VA overload power for 2 seconds, 120 V ² , 60 Hz, single-phase Pure sine wave
AC (pass-through mode)	1,800 VA, 15 A max. (available up to 3 hours when current exceeds 12 A)
4 × USB-A ports	5 V, 3 A, 15 W (max.) per port
2 × USB-C ports	5/9/15/20 V, 3 A, 60 W (max.) per port
1 × DC 12 V port	12 V, 10 A, 120 W (max.)
AC round-trip efficiency ³	>80%
INPUT	
AC grid ⁵	120 V (L-N) ⁵ , 15 A, 60 Hz, 1,800 VA (max.), 14 AWG cable only Fast charge on: 1,500 VA; Fast charge off: 1,350 VA
DC solar	12–50 V operating, 60 V (max.), 10 A, 440 W (max.)
DC 12 V ^{4,6}	12 V, 10 A, 120 W (max.)
BUILT-IN BATTERY	
Rated capacity	1,532 Wh
Usable capacity	1,500 Wh
Battery cycles	2,500 cycles to 65% capacity
Battery chemistry	Rechargeable lithium iron phosphate (LFP)
CELLULAR MODEM (BUILT-IN)	
Network	LTE ⁷ (4G) CAT 4
Frequency band (MHz)	LTE FDD: B2, B4, B12, B66, and B71
SIM	Micro SIM (3FF) + SIM (MFF2); 1.8 V
Data plan	5 years included with product
WIRELESS COMMUNICATION	
Integrated Wi-Fi	802.11 b/g/n, 2.4 GHz
Remote monitoring and control	Yes, with the Enphase App
Remote OTA ⁸ firmware updates	Yes, over Wi-Fi or cellular network
Cloud connectivity	Yes, over Wi-Fi or cellular network
Offline data monitoring	Yes, with the Enphase App via Bluetooth

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COMPLIANCE/RELIABILITY	
Compliance	UL 2743, UL 9540A, UL 1642, UN 38.3, ISTA 6A, FCC, PTCRB
Outdoor Use	Certified to UL 2743 Standard for temporary outdoor use ⁹
Pollution degree	Pollution degree III compliant
WARRANTY	
Limited warranty	5 years or 2,500 cycles, whichever comes first
ENVIRONMENT	
Operating temperature - charging ^{10,11}	32°F to 122°F (0°C to 50°C)
Operating temperature - discharging ^{10,11}	-4°F to 122°F (-20°C to 50°C)
Storage temperature ²	-22°F to 140°F (-30°C to 60°C)
Safe operating humidity (condensing)	4-100%
Optimal operating altitude	8,202 ft (2,500 m)
Pressure	5-100 kPa
Acoustics ¹³	<50 dBA
ACCESSORIES	
Included	Cable Case AC Grid Charging Cable DC 12 V Charging Cable
Optional	IQ Portable Panel IQ Cart

1. TFT: Thin Film Transistor

2. The AC output voltage is 120 V ±5%.

3. Measured at 77°F (25°C), under standard test conditions of 0.2C charge/discharge cycle.

4. User-adjustable charging current from AC grid and DC 12 V. Adjust the AC grid input current (via Enphase App or the LCD touchscreen) to match the grid input current limit of the circuit breaker.

5. The acceptable voltage may vary by ±10%.

6. Nominal voltage is 12 V. Operating voltage range is 10 V to 14.6 V.

7. LTE: Long-Term Evolution

7. OTA: Over-the-air

9. The device can be used in light rain for up to 1 hour. The device must not be immersed in water levels exceeding 0.5 in.

10. The temperature ranges provided are applicable to the internal battery module.

11. Using the device beyond the specified temperature range is prohibited. Charging and discharging performance may vary with temperature. Refer to the user manual.

12. Storing the device beyond the specified temperature range is prohibited. For detailed instructions, refer to the user manual.

13. Measured at a distance of 1 m (3.2 ft) and 25°C (77°F) ambient temperature.

Revision history

REVISION	DATE	DESCRIPTION
DSH-00635-5.0	December 2025	Updated the value of “AC round-trip efficiency”.
DSH-00635-4.0	April 2025	Added a point in the “Best-in-class technology” section on page 1.
DSH-00635-3.0	March 2025	Added a footnote for AC 120 V.
DSH-00635-2.0	January 2025	Added a footnote for DC 12 V.
DSH-00635-1.0	November 2024	Initial release.