



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.



IQ PowerPack 1500

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

IQ PowerPack 1500

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.

Cables and accessories

IQ PowerPack 1500



AC Grid Charging Cable

Included with IQ PowerPack 1500



The AC Grid Charging Cable is designed to charge the IQ PowerPack 1500 from any AC source. This cable is used to connect to 120 V outlets in your home or vehicle or to other accessible AC sources.

If your 120 VAC source does not provide 15 A output, refer to the IQ PowerPack 1500 user manual to correctly adjust the device and ensure compatibility.

Important notes

- Only use cables provided by Enphase to charge IQ PowerPack 1500.
- Avoid touching the metal pins of the cable plug with bare hands.
- If you lose or misplace this cable, replacements are available for purchase from the [Enphase Store](#).

MODEL NO.	
PES-ACC-US-SPR	AC Grid Charging Cable: To charge the IQ PowerPack 1500 from AC outlets
PHYSICAL CHARACTERISTICS	
Length	6.5 ft (2.0 m)
Weight	0.7 lb (317.5 g)
Color	Black
ELECTRICAL	
Voltage rating	300 VAC
Current rating	15 A
Input connector type	NEMA 5-15P
Output connector type	NEMA C13-5-15R
Cable thickness	14 AWG
MECHANICAL/ENVIRONMENT	
Insulation	PVC ² , Type SJTO ³
Maximum number of mating cycles	2,000
Maximum temperature rating	221°F (105°C)
COMPLIANCE AND RELIABILITY	
Compliance	Cable: UL 62; Connectors: UL 817
WARRANTY	
Limited warranty	1 year

1. NEMA: National Electrical Manufacturers Association

2. PVC: Polyvinyl Chloride

3. SJTO: Stranded Junior Thermoplastic Oil-resistant insulation type

DC 12 V Charging Cable

Included with IQ PowerPack 1500



The DC 12 V Charging Cable is designed to charge the IQ PowerPack 1500 from DC 12 V sources such as the 12 V outlet (also known as 'Aux out' or a 'cigarette lighter outlet') in a vehicle.

If your 12 VDC source does not provide 10 A output, refer to the IQ PowerPack 1500 user manual to ensure compatibility and correctly adjust device settings.

Important notes

- Only use cables provided by Enphase to charge the IQ PowerPack 1500.
- Avoid touching the metal pins of the cable plug with bare hands.
- Ensure the DC source does not exceed the product specifications.
- When the LED on the cylindrical plug glows red, the cable is functioning properly. If it does not glow, either the source is not producing energy or the cable's fuse is blown and needs replacement.
- If you lose or misplace this cable, replacements are available for purchase from the [Enphase Store](#).

MODEL NO.	
PES-DCC-12V-SPR	DC 12 V Charging Cable: Auxiliary cable to charge the IQ PowerPack 1500 from a DC 12 V source
PHYSICAL CHARACTERISTICS	
Length	6.5 ft (2.0 m)
Weight	0.2 lb (90.7 g)
Color	Black
ELECTRICAL	
Voltage rating	300 VDC
Current rating	10 A
Input connector type	Cigarette lighter plug
Output connector type	DC 7.5 mm plug
Cable thickness	16 AWG
MECHANICAL/ENVIRONMENT	
Insulation	FT1, Type SJTO
Maximum number of mating cycles	2,000
Maximum temperature rating	221°F (105°C)
COMPLIANCE AND RELIABILITY	
Compliance	UL FT1
WARRANTY	
Limited warranty	1 year

Solar Charging Cable

Included with IQ Portable Panel



The Solar Charging Cable is designed to charge the IQ PowerPack 1500 from the IQ Portable Panel.

At one end, it connects with the MC4 connectors on the solar panel. At the other end, it plugs into the DC Solar input port on the back of the IQ PowerPack 1500.

Important notes

- Only use cables provided by Enphase to charge the IQ PowerPack 1500.
- Avoid touching the metal pins of the cable plug with bare hands.
- When charging is complete, Solar Cable Disconnect Tool should be used to unplug the MC4 connectors.
- If you lose or misplace this cable, replacements are available for purchase from the [Enphase Store](#).

MODEL NO.	
PES-MC4XT-11-SPR	Solar Charging Cable: To charge the IQ PowerPack 1500 from the IQ Portable Panel
PHYSICAL CHARACTERISTICS	
Length	6.5 ft (2.0 m)
Weight	0.75 lb (340.2 g)
Color	Black
ELECTRICAL	
Voltage rating	300 VDC
Current rating	10 A
Input connector type	MC4 male and female
Output connector type	XT60
Cable thickness	12 AWG and 16 AWG
MECHANICAL/ENVIRONMENT	
Insulation	PVC, Type SJTO
Maximum number of mating cycles	1,000
Maximum temperature rating	194°F (90°C)
COMPLIANCE AND RELIABILITY	
Compliance	Cable: UL 4703; MC4 connector: UL 6703; XT60 connector: UL 1977
WARRANTY	
Limited warranty	1 year

Solar Extension Cables

Optional accessories for IQ Portable Panel



The standard Solar Charging Cable for the IQ PowerPack 1500 is 6.5 ft (2.0 m) in length. The Solar Extension Cables offer more flexibility by providing extension lengths of 16.4 ft (5.0 m) and 32.8 ft (10.0 m) to significantly extend the distance between the panel and the IQ PowerPack 1500.

The Solar Extension Cables are connected and disconnected in the same way as the Solar Charging Cable.

Important notes

- Only use cables provided by Enphase to charge the IQ PowerPack 1500.
- Avoid touching the metal pins of the cable plug with bare hands.
- When charging is complete, the Solar Cable Disconnect Tool should be used to unplug the MC4 connectors.
- If you lose or misplace these cables, replacements are available for purchase from the [Enphase Store](#).

MODEL NO.	
PES-MC4-05-SPR, PES-MC4-10-SPR	Solar Extension Cable – 16.4 ft (5.0 m), Solar Extension Cable – 32.8 ft (10.0 m): Extension cables to charge the IQ PowerPack 1500 from the IQ Portable Panel
PHYSICAL CHARACTERISTICS	
Length	16.4 ft (5.0 m); 32.8 ft (10.0 m)
Weight	2.6 lb (1.2 kg); 5.2 lb (2.4 kg)
Color	Black and red
ELECTRICAL	
Voltage rating	1,500 VDC
Current rating	50 A
Input connector type	MC4 male and female
Output connector type	MC4 male and female
Cable thickness	10 AWG

MECHANICAL/ENVIRONMENT	
Insulation	XPLE ⁵
Maximum number of mating cycles	1,000
Maximum temperature rating	221°F (105°C)
COMPLIANCE AND RELIABILITY	
Compliance	Cable: UL 4703; MC4 connector: UL 6703
WARRANTY	
Limited warranty	1 year

5. XPLE: Cross-linked Polyethylene

Cable Case

Included with the IQ PowerPack 1500



The Cable Case is designed to store the cables that come with the IQ PowerPack 1500. The case comes with a zipper to hold the cables when not in use. It can be inserted into the rear pouch of the IQ Cart.

Important notes

- For use with the cables provided with the IQ PowerPack 1500.
- If you lose or misplace the case, replacement is available for purchase from the [Enphase Store](#).

MODEL NO.	
PES-CASE-BL-SPR	Cable Case: To store the cables provided with the IQ PowerPack 1500
PHYSICAL CHARACTERISTICS	
Quantity	1
Color	Black

Solar Cable Disconnect Tool

Included with IQ Portable Panel



This handy tool is designed to help disconnect the MC4 connectors on the IQ Portable Panel from the MC4 connectors on the Solar Charging Cable or Solar Extension Cables.

Important notes

- Only use with the Solar Charging Cable and Solar Extension Cables provided by Enphase.
- If you lose or misplace the tool, replacements are available for purchase from the [Enphase Store](#).

MODEL NO.	
PES-DISC-MC4-SPR	Solar Cable Disconnect Tool: To disconnect the MC4 connectors on IQ Portable Panel
PHYSICAL CHARACTERISTICS	
Quantity	1
Color	Black

Stakes

Included with IQ Portable Panel



These sturdy Stakes affix the IQ Portable Panel to the ground for a more secure setup in windy conditions. Six Stakes are included with the panel—two for each support leg. They are intended for use on softer surfaces such as sand, grass, or soil.

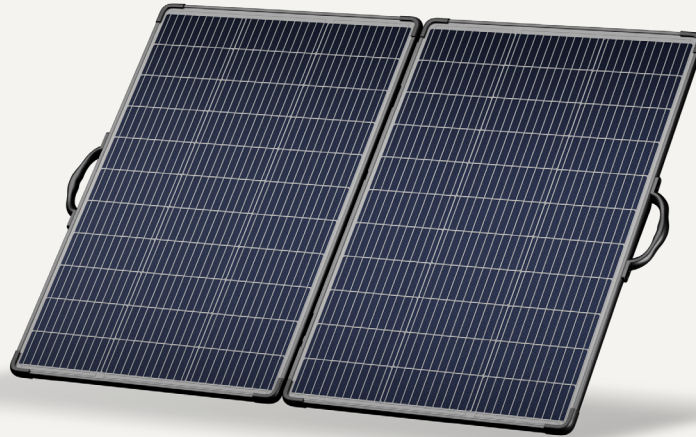
Important notes

- Only use with the IQ Portable Panel provided by Enphase.
- If you lose or misplace the tool, replacements are available for purchase from the [Enphase Store](#).

MODEL NO.	
PSP-STK-BL-SPR	Stakes: To hold the IQ Portable Panels firmly onto a surface
PHYSICAL CHARACTERISTICS	
Quantity	1 set of 6 pieces
Color	Black

Revision history

REVISION	DATE	DESCRIPTION
DSH-00638-1.0	November 2024	Initial release.



IQ Portable Panel 200 W

The IQ Portable Panel delivers powerful, durable, and portable solar charging for the IQ PowerPack, providing a reliable source of renewable energy at home, at work, or off the grid.

Equipped with 200 W of premium A-grade monocrystalline solar cells, it's designed for camping, boating, RVs, job sites, and emergency backup. Its rugged construction resists damage and helps maintain performance even after years of use.

This high-efficiency, foldable panel is backed by a 5-year limited warranty and features a built-in handle, a sleek carrying bag with a storage pouch, two integrated support legs for stability, and a Solar Cable Disconnect Tool for added convenience.



Powerful and versatile

- Adds solar generator capability to the IQ PowerPack.
- Engineered to perform better than average panels even under low-light conditions, including low sun angle and shade.
- Two panels can be connected in series to deliver up to 400 W of charging power.

Rugged and portable

- Stands up to harsh environments and heavy-duty use.
- Sturdy, built-in support legs and carry handle; compact design folds down for storage and transportation.

Leader in safety and reliability

- Certified to IEC 63163, the foremost standard for solar panel safety and reliability.
- IP68 rated for superior waterproof protection, ensuring reliable performance and safeguarding against moisture, corrosion, and electrical hazards.
- Backed by a 5-year limited warranty and engineered for a 10-year life, ensuring long-term reliability.

IQ Portable Panel 200 W

MODEL NO.	
PES-PSP2-200	IQ Portable Panel to charge IQ PowerPack from sunlight
PHYSICAL CHARACTERISTICS	
Dimensions (folded) (L × W × H)	35.4 in × 23.2 in × 2.0 in (900 mm × 590 mm × 50 mm)
Dimensions (unfolded) (L × W × H)	46.5 in × 35.4 in × 1.0 in (1180 mm × 900 mm × 25 mm)
Weight	13.4 lb (6.1 kg)
Color	Black
Portable	Yes; foldable and transportable with easy-to-carry Solar Panel Bag
Support legs	2
ELECTRICAL CHARACTERISTICS (STC) ¹	
Cell type	A-grade monocrystalline
Number of cells	66
Rated power (P _{max})	200 W
Voltage at P _{max} (V _{mp})	19 VDC
Current at P _{max} (I _{mp})	10 A
Open circuit voltage (V _{oc})	23 VDC
Short circuit current (I _{sc})	11 A
Cell efficiency	23%
Temperature coefficient of P _{max}	-0.38
Temperature coefficient of V _{oc}	-0.36
Temperature coefficient of I _{sc}	0.05
Optimal operating temperature	-4°F to 158°F (-20°C to 70°C)
Connector type	MC4
CERTIFICATIONS/RELIABILITY	
Certifications	CE, RoHS, IEC 63163
IP rating (Water resistance)	IP68
WARRANTY	
Limited warranty	5 years
ACCESSORIES	
Included	Solar Charging Cable Solar Cable Disconnect Tool Solar Panel Bag
Optional (buy separately)	Solar Extension Cable - 16.4 ft (5.0 m) Solar Extension Cable - 32.8 ft (10.0 m)

1. Standard Test Conditions (STC)—1,000 W/m² intensity, air mass 1.5, 77°F (25°C) cell temperature. Power tolerance is ±5% W at STC, and electrical characteristics are within ±10% unless otherwise specified.

Revision history

REVISION	DATE	DESCRIPTION
DSH-00883-2.0	March 2026	Editorial updates.
DSH-00883-1.0	October 2025	Initial release.



IQ Cart

The IQ Cart is a sturdy, foldable trolley to securely hold and transport the IQ PowerPack 1500.

Suitable for both indoor and outdoor environments, the cart includes sturdy latches that keep the IQ PowerPack 1500 in place. For additional convenience, the IQ PowerPack 1500's input and output ports are fully accessible to the user when the device is loaded on the cart.

Rolling smoothly on pavement, flooring, and other firm surfaces, the cart's durable wheels have an easy-to-engage locking mechanism to prevent unintended movement when parked.

The cart features an adjustable telescopic handle for ease of transport and a rear pouch to hold the Cable Case. When not in use, the frame folds down for storage, easily fitting into a vehicle trunk while on the road, in a closet, or under a bed at home.



Rugged and reliable

- Sturdy, shock-resistant frame designed for indoor and outdoor use.
- Rigorously designed and tested to stand up to harsh environments and heavy-duty use.

Ease of transportation

- Makes moving the IQ PowerPack 1500 as easy as rolling a suitcase.
- Telescopic handle with adjustable height.

Safe and secure

- Durable latches keep the IQ PowerPack 1500 securely in place.
- Wheel brakes prevent inadvertent rolling when the cart is parked.

Space-friendly

- Designed to fit into small spaces.
- Folds down for compact storage at home or in a vehicle when not in use.

Cart in folded position



IQ Cart

MODEL NO.	
PES-CRT-1515	Transport cart to carry the IQ PowerPack 1500
PHYSICAL CHARACTERISTICS	
Dimensions (folded) (L x W x H)	16.5 in x 22.2 in x 7.4 in (419 mm x 564 mm x 188 mm)
Dimensions (unfolded) (L x W x H)	16.5 in x 13.8 in x 41.9 in (419 mm x 350 mm x 1064 mm)
Weight	11.5 lb (5.2 kg)
Color	Black
Material	Aluminum and polycarbonate plastic
Maximum carrying capacity	308.6 lb (140.0 kg), including the IQ PowerPack 1500
Handle	Telescopic handle
Storability	Foldable design
Storage pouch	Rear pouch for Cable Case
SAFETY AND RELIABILITY	
Secures IQ PowerPack 1500	Yes
Wheel lock	Yes
Outdoor use	Yes
WARRANTY	
Limited warranty	5 years

Revision history

REVISION	DATE	DESCRIPTION
DSH-00637-1.0	November 2024	Initial release.