

IQ PowerPack 1500

User manual



To find the latest IQ PowerPack 1500 documentation in all supported languages (including warranty information), visit the [Enphase website](#).

WARNING:

Read this entire document before connecting or using your IQ PowerPack 1500. Failure to do so or follow any of the instructions or warnings in this document may result in electric shock, personal injury, or damage to your device.

This user manual only applies to the IQ PowerPack 1500 and its recommended accessories.

All specifications and descriptions contained in this document are accurate at the time of the document release. Enphase reserves the right to make product modifications at any time without notification.

The images provided in this document are for demonstration purposes only. Depending on the product version and market region, details may vary.

Errors or omissions

To communicate any inaccuracies or omissions in this user guide, visit [Enphase Support](#).

For the Enphase patent information, refer to the <https://enphase.com/patents>.

ELECTRONIC DEVICE: DO NOT THROW AWAY!



Proper disposal of lithium-ion batteries is required. Refer to your local codes for disposal requirements.

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Important safety instructions

Safety and advisory symbols



DANGER!

This indicates a hazardous situation which, if not avoided, could result in death or serious injury. Use extreme care and follow these instructions carefully.



CAUTION!

This indicates a situation where failure to follow instructions may create a safety hazard or cause equipment to malfunction. Use caution and follow instructions carefully.



NOTE

This indicates that the information is important for optimal system operation. Follow instructions carefully.

SAVE THESE INSTRUCTIONS

INSTRUCTIONS ABOUT THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PEOPLE



DANGER!

When using this device and its accessories, some basic precautions should always be followed:



Read all instructions before using the device.



To reduce the risk of injury or electric shock, close supervision is necessary when the device is being operated near children.



Do not try to put fingers or hands into the device or on any exposed metal surfaces. Doing so may result in injury or electric shock.



If you notice strange smells, sounds, smoke, or liquids leaking from the device, stop using it immediately, turn it off, and contact Enphase Support at (877)-797-4743.



If liquid ejects from the battery, avoid contact as it may cause irritation or severe burns. If contact occurs, flush with water and seek medical help immediately.



Do not smoke, strike a match, or allow a spark in the vicinity of the device.



Do not attempt any special setups to overcharge the device in any way.



Follow local standards to protect against lightning and resulting voltage surge.



To safely dispose of the device and the battery, do not dispose of them in a fire. Do not crush or puncture the device. Do not expose to high external pressure or handle a damaged or leaking battery. Instead, contact your nearest battery or e-waste disposal center.



Do not disassemble the device. Incorrect reassembly may result in risk of fire or electric shock. Do not repair the device on your own as it will void the warranty and may make the device inoperable. Enphase is not liable for any damages or injuries associated with unauthorized tampering or use of the device.



If the device is not working, contact Enphase Support who will ensure that servicing is performed by a qualified repair person using only approved replacement parts to maintain the safety of the device.



Unplug the device from the wall socket before attempting any instructed servicing to reduce the risk of electric shock.



Do not use a damaged device. Do not connect the device to damaged or modified appliances as it may result in fire, explosion, or risk of injury due to unpredictable behavior.



Do not expose the device to fire or high-temperature heating sources. Exposure to fire or temperatures above 265°F (130°C) may cause an explosion.



Using unauthorized accessories may result in the risk of fire, electric shock, or injury to persons.



Do not touch the charging cables with wet hands or disconnect them by pulling the cord. Doing so may damage the charging cables and charging ports or result in an electric shock.



To reduce the risk of damage to the electric plug and the cable, pull the plug rather than the cable when disconnecting the device.



When charging the device, keep it in a well-ventilated area.

GROUNDING INSTRUCTIONS

 The device must be grounded. If the device malfunctions or breaks down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. Use the AC Grid Charging Cable provided by Enphase, which has a grounding conductor and plug. Plug the cable into a properly installed, grounded power source that complies with local codes and ordinances.

 Improper connection of the device's grounding conductor can result in a risk of electric shock. Check with a qualified electrician to verify if the device is properly grounded. Do not modify the charging cable plug provided with the device. If the plug of the charging cable does not fit the power source, have an appropriate power source installed by a qualified electrician.

CAUTION!

 Risk of electric shock. Do not remove the cover. No user-serviceable parts inside.

 Risk of electric shock. Do not operate the device with a damaged charging cable, a damaged appliance cable, loose electrical sockets, or unsecured connections.

 Risk of electric shock. Connect the device, only to the properly grounded power source.

 This device is intended for temporary outdoor use and reasonable care should be exercised when using this device in wet conditions.

 This device is intended to be stored indoors when not in use. To protect the device from various elements, it should not be stored or left outdoors when not in use.

 This device is not intended for use in a commercial repair facility.

 Do not plug in the AC Grid Charging Cable to the AC 120 V output ports. Doing so can be dangerous and damage the device.

 Turn off and move the device away from potentially explosive environments.

 Do not connect more than 120 V AC nominal to charge the device. Do not connect more than 60 V DC from solar panels. Do not connect more than 12 V DC nominal from the car's DC port to charge the device. Doing so will damage the device and may cause personal injury.

NOTE:

 Do not sit on, place heavy objects on, or insert objects into the device. Do not place beverages or liquid containers on top of the device.

 Do not immerse the device in liquids or expose it to flooding.

 Do not bend or damage the charging cables. Doing so may cause electric shock or fire.

 Using any unauthorized accessories may result in unexpected performance of the device. It is strongly recommended to use only the original accessories provided with the device or those sold through the [Enphase website](#).

 Device charging may slow down when extension cables are used to charge from the wall socket, IQ Portable Panels, or a DC 12 V input source.

 While charging from the wall socket, IQ Portable Panels, or a DC 12 V input source, do not exceed the input voltage and current limits specified in this document. Doing so will void the warranty and may cause personal injury or damage to the device.

MAINTENANCE INSTRUCTIONS

 Do not use chemicals to clean the device or try to paint the device.

 Ensure that the vents in the front and rear of the device are unobstructed. If any debris accumulates, wipe the vents clean.

 The device performs at its best when used regularly. Connect the device to Wi-Fi at least once a month.

STORAGE INSTRUCTIONS

 Do not store the device in a vehicle or in areas where flooding or heavy rain is possible, keep the device at a height that prevents any water ingress or store it in a covered area.

 When storing the device for an extended period, keep it in a cool location and follow the device storage instructions described in this document.

 Charge the device to 60% or more every six months when storing it for an extended period to avoid permanent battery damage and voiding the device warranty. Refer to the [Device storage instructions](#) section for additional requirements on extended period storage.

OPERATING INSTRUCTIONS

- ⓘ During use, storage, and transport, keep the device upright, flat, and well-ventilated where the surrounding temperatures are within acceptable limits as mentioned in this document. Avoid heat, sparks, lightning, dust, debris, gases, oils, chemicals, smoke, exhaust, falling or moving objects.
- ⓘ Do not use the device above 8202 ft (2500 m) or in places that violate fire safety or building codes.
- ⓘ Place it on a stable flat surface, not on soft or flammable materials.
- ⓘ The device is not suitable for use with medical emergency or life-support-related equipment.
- ⓘ Keep the device away from electronic and medical equipment whose operation may be impacted by electromagnetic or radio emissions.
- ⓘ Handle the device with care and secure it during transportation.
- ⓘ Keep the protection covers closed on the input/output ports to avoid water or dust ingress when not in use.
- ⓘ Do not touch the metal pins of the ports or the end of the charging cables with bare fingers.
- ⓘ Shut down and unplug all cables and connected appliances before cleaning the surface of the device.
- ⓘ To reduce the risk of corrosion, do not expose the device to a marine environment for more than a couple of days at a time.
- ⓘ When in use outdoors, reasonable care should be taken to reduce exposure to rain, sleet, snow, etc.
- ⓘ Do not leave the unit unattended when charging the device from an AC socket outdoors.

CONSIGNES DE SÉCURITÉ – CONSERVEZ CES INSTRUCTIONS

INSTRUCTIONS CONCERNANT LES RISQUES D'INCENDIE, D'ÉLECTROCUTION OU DE BLESSURES CORPORELLES

DANGER!

Lors de l'utilisation de cet appareil et de ses accessoires, respectez toujours des mesures de précaution élémentaires, notamment les suivantes :

 Lisez l'intégralité des instructions avant d'utiliser l'appareil.

 Pour réduire le risque de blessure ou d'électrocution, surveillez étroitement l'utilisation de l'appareil lorsque des enfants sont présents.

 Évitez d'introduire les doigts ou les mains dans l'appareil ou de les placer sur des surfaces métalliques exposées. Cela pourrait causer des blessures ou une décharge électrique.

 Si l'appareil émet des odeurs, des sons, de la fumée ou des liquides anormaux, cessez immédiatement de l'utiliser, éteignez le système et communiquez avec le service d'assistance d'Enphase au (877)-797-4743.

 Si un liquide s'écoule de la batterie, évitez tout contact avec celle-ci afin d'éviter des irritations ou des brûlures graves. En cas de contact, rincez à l'eau et consultez immédiatement un médecin.

 Ne fumez pas, n'allumez pas d'allumette et évitez toute étincelle à proximité de l'appareil.

 Évitez toute configuration ou utilisation susceptible de surcharger l'appareil de quelque manière que ce soit.

 Suivez les réglementations locales pour protéger l'appareil contre la foudre et les surtensions qui en résultent.

 Pour mettre au rebut l'appareil et la batterie en toute sécurité, ne les jetez pas au feu, ne les écrasez pas et ne les percez pas. N'exposez pas une batterie qui fuit ou qui est endommagée à une pression extérieure élevée, et ne tentez pas de la manipuler. Communiquez plutôt avec le centre d'élimination de batteries et de déchets électroniques le plus proche.

 Ne démontez pas l'appareil. Un remontage incorrect pourrait entraîner un risque d'incendie ou de décharge électrique. Ne réparez pas l'appareil vous-même, car cela invalidera la garantie et pourrait rendre l'appareil inutilisable. Enphase décline toute responsabilité en cas de dommages ou de blessure associés à une altération ou à une utilisation

non autorisée de l'appareil.

 Si l'appareil ne fonctionne pas, communiquez avec le service d'assistance d'Enphase, qui veillera à ce que l'entretien soit effectué par un réparateur qualifié, en utilisant uniquement des pièces de rechange approuvées afin de maintenir la sécurité de l'appareil.

 Débranchez l'appareil de la prise murale avant d'effectuer tout entretien requis afin de réduire le risque de décharge électrique.

 N'utilisez pas un appareil endommagé. Ne raccordez pas l'appareil à des appareils endommagés ou modifiés, car cela risque de provoquer un incendie, une explosion ou un risque de blessure en raison d'un comportement imprévisible.

 N'exposez pas l'appareil au feu ou à des températures élevées. L'exposition au feu ou à des températures supérieures à 130°C (265°F) peut provoquer une explosion.

 L'utilisation d'accessoires non autorisés peut entraîner un risque d'incendie, de décharge électrique ou de blessures corporelles.

 Ne touchez pas les câbles de recharge avec les mains mouillées et ne les débranchez pas en tirant sur le cordon. Cela pourrait endommager les câbles et les ports ou provoquer une décharge électrique.

 Pour réduire le risque d'endommagement de la fiche et du câble électriques, tirez sur la fiche plutôt que sur le câble lors du débranchement de l'appareil.

 Lorsque vous rechargez l'appareil, gardez-le dans un endroit bien ventilé.

INSTRUCTIONS DE MISE À LA TERRE

 L'appareil doit être relié à la terre. En cas de dysfonctionnement ou de panne de l'appareil, la mise à la terre fournit un chemin de moindre résistance au courant électrique afin de réduire le risque de décharge électrique. Utilisez le câble de recharge AC fourni par Enphase, qui est doté d'une fiche et d'un conducteur de mise à la terre. Branchez le câble à une source d'alimentation correctement installée

et mise à la terre, conforme aux codes et aux ordonnances locaux.

 Le raccordement incorrect du conducteur de mise à la terre de l'appareil peut entraîner un risque de décharge électrique. Demandez à un électricien qualifié de vérifier que l'appareil est correctement mis à la terre. Ne modifiez pas la fiche du câble de recharge fournie avec l'appareil. Si la fiche ne correspond pas à la source d'alimentation, faites installer une source d'alimentation appropriée par un électricien qualifié.

ATTENTION!

 Risque de décharge électrique. Ne retirez pas le couvercle. L'appareil ne contient aucune pièce réparable par l'utilisateur.

 Risque de décharge électrique. N'utilisez pas l'appareil avec un câble de recharge endommagé, un câble d'appareil endommagé, des prises électriques desserrées ou des raccordements non sécurisés.

 Risque de décharge électrique. Ne branchez l'appareil qu'à une source d'alimentation correctement mise à la terre.

 Cet appareil est destiné à une utilisation temporaire à l'extérieur. Des précautions raisonnables doivent être prises lors de son utilisation dans des conditions humides.

 Cet appareil doit être rangé à l'intérieur lorsqu'il n'est pas utilisé. Pour protéger l'appareil contre divers éléments, il ne doit pas être rangé ou laissé à l'extérieur lorsqu'il n'est pas utilisé.

 Cet appareil n'est pas destiné à être utilisé dans un atelier de réparation commercial.

 Ne branchez pas le câble de recharge AC sur les ports de sortie AC de 120 V. Cela peut être dangereux et endommager l'appareil.

 Éteignez l'appareil et éloignez-le des environnements potentiellement explosifs.

 Ne branchez pas d'appareils qui dépassent la tension nominale maximale (120 V AC). Ne branchez pas des appareils dont la tension est supérieure à 60 V DC aux panneaux solaires. Ne branchez pas un appareil de tension nominale supérieure à 12 V DC au port DC de la voiture pour le recharger. Cela endommagera l'appareil et pourrait provoquer des blessures corporelles.

INSTRUCCIONES DE SEGURIDAD: GUARDE ESTAS INSTRUCCIONES

INSTRUCCIONES SOBRE EL RIESGO DE INCENDIO, DESCARGA ELÉCTRICA O LESIÓN PARA LAS PERSONAS

¡PELIGRO!

Cuando use este dispositivo y sus accesorios, siempre debe seguir precauciones básicas, como las siguientes:

-  Lea todas las instrucciones antes de utilizar este dispositivo.
-  Para reducir el riesgo de lesión o descarga eléctrica, se necesita una supervisión atenta cuando se utiliza el dispositivo cerca de niños.
-  No intente colocar sus dedos o manos en el dispositivo o en ninguna superficie de metal expuesta. De lo contrario, podría provocar una lesión o una descarga eléctrica.
-  Si observa olores extraños, sonidos, humo o líquidos que se filtran del dispositivo, deje de usarlo inmediatamente, apáguelo y comuníquese con el soporte de Enphase al (877)-797-4743.
-  Si el líquido proviene de la batería, evite el contacto, dado que puede provocar irritación o quemaduras graves. Si entra en contacto, enjuague con agua y busque asistencia médica de inmediato.
-  No fume, encienda un fósforo o genere chispas en los alrededores del dispositivo.
-  No intente ninguna configuración especial que pueda sobrecargar el dispositivo.
-  Siga los estándares locales para protegerse de los rayos y de la sobretensión de voltaje resultante de estos.
-  Para desechar el dispositivo y la batería de forma segura, no los tire al fuego, no los aplaste ni los perfore. No exponga la batería a una presión externa elevada ni manipule una batería dañada o con fugas. En su lugar, comuníquese con el centro de desechos de baterías o de residuos eléctricos más cercano.
-  No desarme el dispositivo. El rearmado incorrecto puede resultar en riesgo de incendio o descarga eléctrica. No repare el dispositivo por su cuenta, dado que esto invalidaría la garantía y puede resultar en que el dispositivo se vuelva inutilizable. Enphase no es responsable de los daños o lesiones asociados con la manipulación o el uso no autorizados del dispositivo.
-  Si el dispositivo no funciona, comuníquese con el soporte de Enphase, el cual se asegurará de que el servicio lo lleve a cabo un técnico de reparación calificado mediante repuestos aprobados que mantengan la seguridad del dispositivo.

-  Desenchufe el dispositivo del toma de corriente antes de intentar cualquier servicio instruido a fin de reducir el riesgo de una descarga eléctrica.
-  No utilice el dispositivo dañado. No conecte el dispositivo a electrodomésticos dañados o modificados, dado que podría provocar un incendio, una explosión o un riesgo de lesión a causa de algún comportamiento impredecible.
-  No exponga el dispositivo al fuego ni a altas temperaturas. La exposición al fuego o a las temperaturas superiores a los 265°F (130°C) puede provocar una explosión.
-  Utilizar accesorios que no están autorizados puede provocar riesgo de incendio, una descarga eléctrica o una lesión en las personas.
-  No toque los cables de carga con las manos mojadas ni los desconecte tirando del cable. Si lo hace, podría dañar los cables y los puertos de carga, o provocar una descarga eléctrica.
-  Para reducir el riesgo de daño con el enchufe y el cable, tire del enchufe en lugar del cable cuando desconecte el dispositivo.
-  Cuando cargue el dispositivo, manténgalo en un área bien ventilada.

INSTRUCCIONES DE CONEXIÓN A TIERRA

-  El dispositivo debe estar conectado a tierra. Si el dispositivo funcionara mal o se averiara, la conexión a tierra le brindaría una vía de menor resistencia para la corriente eléctrica, lo que reduciría el riesgo de descarga eléctrica. Use el cable de carga de red de AC que proporciona Enphase, el cual tiene un conductor y un enchufe a tierra. Enchufe el cable en una fuente de alimentación a tierra correctamente instalada que cumpla con los códigos y normativas locales.
-  La conexión inapropiada del conductor a tierra del dispositivo puede provocar el riesgo de una descarga eléctrica. Consulte a un electricista calificado para verificar si el aparato está correctamente conectado a tierra. No modifique el cable con el enchufe de carga que viene con el dispositivo. Si el enchufe del cable de carga no encaja en la fuente de alimentación, instale una fuente apropiada mediante un electricista calificado.

-  Riesgo de descarga eléctrica. No quite la cubierta. No hay piezas reparables por el usuario en el interior.
-  Riesgo de descarga eléctrica. No opere el dispositivo si el cable de carga o el de conexión están dañados, o mediante tomas a corriente flojas o conexiones inseguras.
-  Riesgo de descarga eléctrica. Conecte el dispositivo solo a una fuente de alimentación a tierra apropiadamente conectada.
-  Este dispositivo está destinado a un uso en el exterior temporal y se deben tomar precauciones cuando se lo utiliza en condiciones húmedas.
-  Se debe almacenar el dispositivo en el interior cuando no se lo utiliza. Para proteger el dispositivo de distintos elementos, no se lo debe almacenar o dejar en el exterior cuando no está en uso.
-  Este dispositivo no está diseñado para usarse en un centro de reparación comercial.
-  No conecte el cable de carga de red de AC a los puertos exteriores de AC de 120 V. Esto es peligroso y puede dañar el dispositivo.
-  En entornos de potencial explosión, apague el dispositivo y aléjelo.
-  No conecte el dispositivo a más de 120 V de AC nominal para cargarlo. No conecte el dispositivo a más de 60 V de DC proveniente de paneles solares. No conecte el dispositivo a más de 12 V de DC nominal del puerto de DC del coche para cargar el aparato. Esto dañará el dispositivo y puede provocar una lesión a su persona.

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1

The product and its accessories



1.1 IQ PowerPack 1500

The ultimate solution for reliable backup power at home or on the go, the IQ PowerPack 1500 is a lithium iron phosphate (LFP) battery-based energy storage that can be charged from AC Grid, portable solar panels, or a DC 12 V input source. Certified for temporary outdoor use, the IQ PowerPack 1500 offers 1.5 kWh of battery capacity to power essential appliances during outages or when off-grid.

The IQ PowerPack 1500 comes with two charging cables—an AC Grid Charging Cable, and a DC 12 V Charging Cable. It also comes with a Cable Case to store the charging cables when not in use and a quick start guide to help you get started.

IQ PowerPack 1500



AC Grid Charging Cable



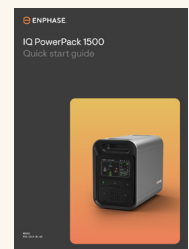
DC 12 V Charging Cable



Cable Case



Quick start guide



1.2 IQ PowerPack 1500 accessories

The following accessories can either be purchased as a kit along with the IQ PowerPack 1500 or as a standalone unit from the [Enphase Store](#).

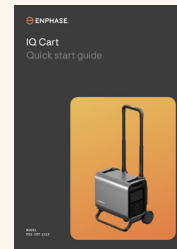
1.2.1 IQ Cart

The IQ Cart is built to accompany the IQ PowerPack 1500 to easily carry it from one place to another. It comes with a quick start guide to help you get started. The cart has a built-in rear pouch to store and carry the Cable Case.

IQ Cart



Quick start guide



1.2.2 IQ Portable Panel

Powerful, durable, and easy to carry, the IQ Portable Panel charges the IQ PowerPack 1500 from the sun, providing an independent source of renewable energy at home, while at work, or when traveling off the grid.

It comes with a Solar Charging Cable, a Solar Cable Disconnect Tool, a Solar Panel Bag, and a quick start guide to help you get started. The accessories that come with the IQ Portable Panel can be safely stored inside the storage pouch on the Solar Panel Bag.

IQ Portable Panel



200 W



400 W

Solar Charging Cable



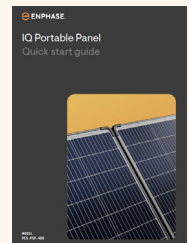
Solar Cable
Disconnect Tool



Solar Panel Bag



Quick start guide



1.2.3 Cables and accessories

A user can purchase the following cables and accessories separately from the [Enphase Store](#):



AC Grid Charging Cable
to charge the
IQ PowerPack 1500 from
AC outlets.



Cable Case
to store the cables that come with the
IQ PowerPack 1500.



DC 12 V Charging Cable
to charge the
IQ PowerPack 1500 from a
DC 12 V source.



Solar Cable Disconnect Tool
to disconnect MC4 connectors
between the IQ Portable Panel.



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



Solar Extension Cables
(available in 16.4 ft and
32.8 ft length) extension cables to
charge the IQ PowerPack 1500
from the IQ Portable Panel.

2

Know your gear

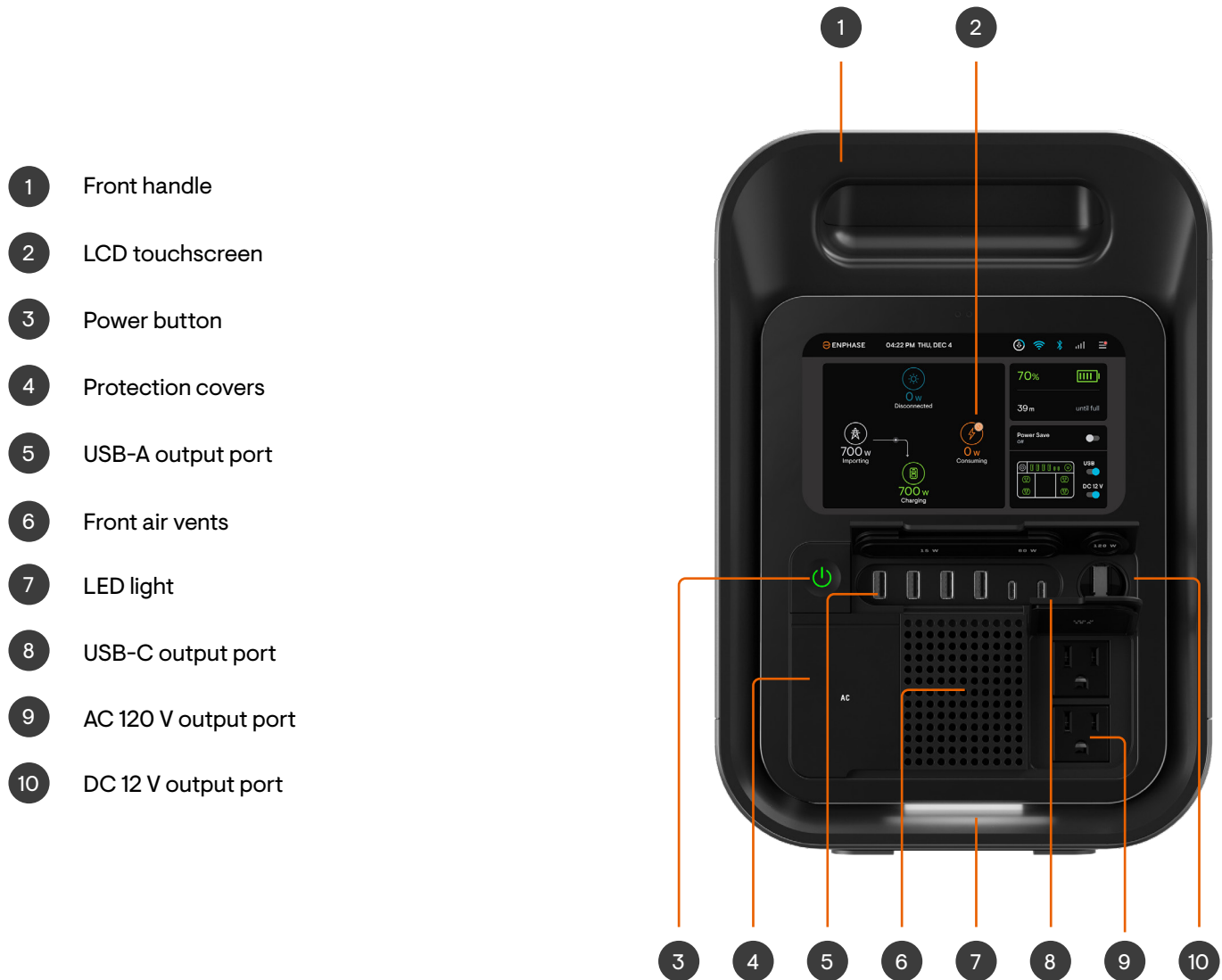


2.1 IQ PowerPack 1500 parts

IQ PowerPack 1500 front panel

The front panel of the device consists of six major parts—a front handle to lift the device, an LCD touchscreen, a power button, protection covers to shield the output ports from dust and moisture, front air vents, and an LED light at the bottom. The front panel has an embedded proximity sensor to wake up the device when you are nearby.

The device provides four types of output ports – four USB-A, two USB-C, one DC 12 V, and four AC 120 V output ports to power the connected appliances.



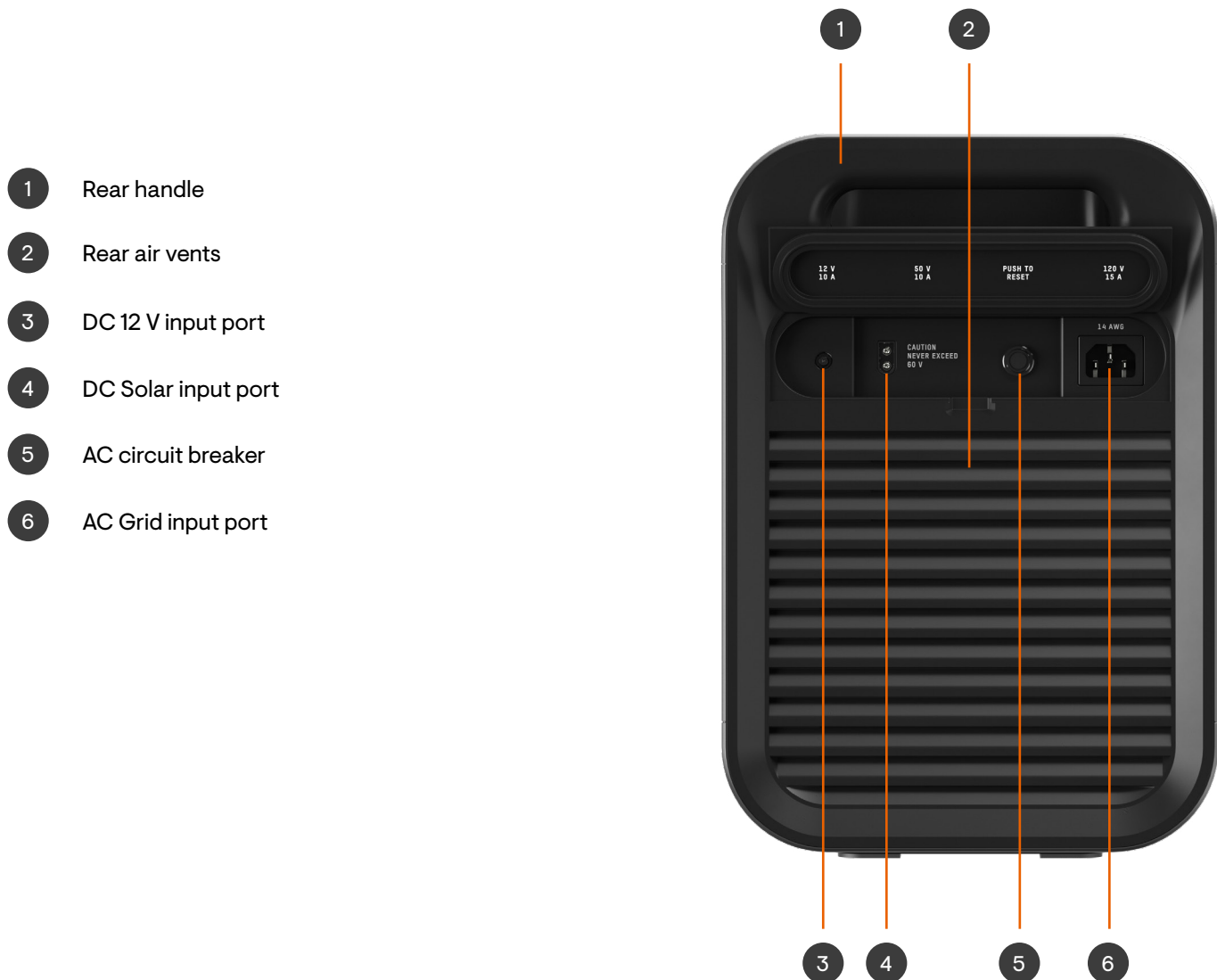
IQ PowerPack 1500 rear panel

The rear panel of the device consists of a rear handle which is to be used with the front handle to lift the device, a 15 A AC circuit breaker to protect the AC Grid input port from overcurrent conditions, and three types of input ports which allow the device to charge from three different input sources – AC Grid, DC Solar, or a DC 12 V input source. The rear panel of the device also has air vents for cooling down the device's battery when operating at high power or in hot ambient conditions.



Things to remember:

- Keep the protection covers closed when the device is not in use to avoid dust, debris, or water ingress.
- Do not block the air vents to avoid the risk of overheating the battery.



2.1.1 IQ PowerPack 1500 Specifications

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 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	1500 VA (max continuous output power) 3000 VA overload power for 2 seconds, 120 V ² , 60 Hz, single-phase Pure sine wave
AC (pass-through mode)	1800 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 ⁴	120 V (L-N) ⁵ , 15 A, 60 Hz, 1800 VA (max.), 14 AWG cable only Fast charge on: 1500 VA; Fast charge off: 1350 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	1532 Wh
Usable capacity ⁷	1500 Wh
Battery cycles	2500 cycles to 65% capacity
Battery chemistry	Rechargeable lithium iron phosphate (LFP)
CELLULAR MODEM (BUILT-IN)	
Network	LTE ⁸ (4G) CAT 4
Frequency band (MHz)	LTE FDD: B2, B4, B12, B66 & B71
SIM	Micro SIM (3FF) + SIM (MFF2); 1.8 V
Data plan	5 years included with product

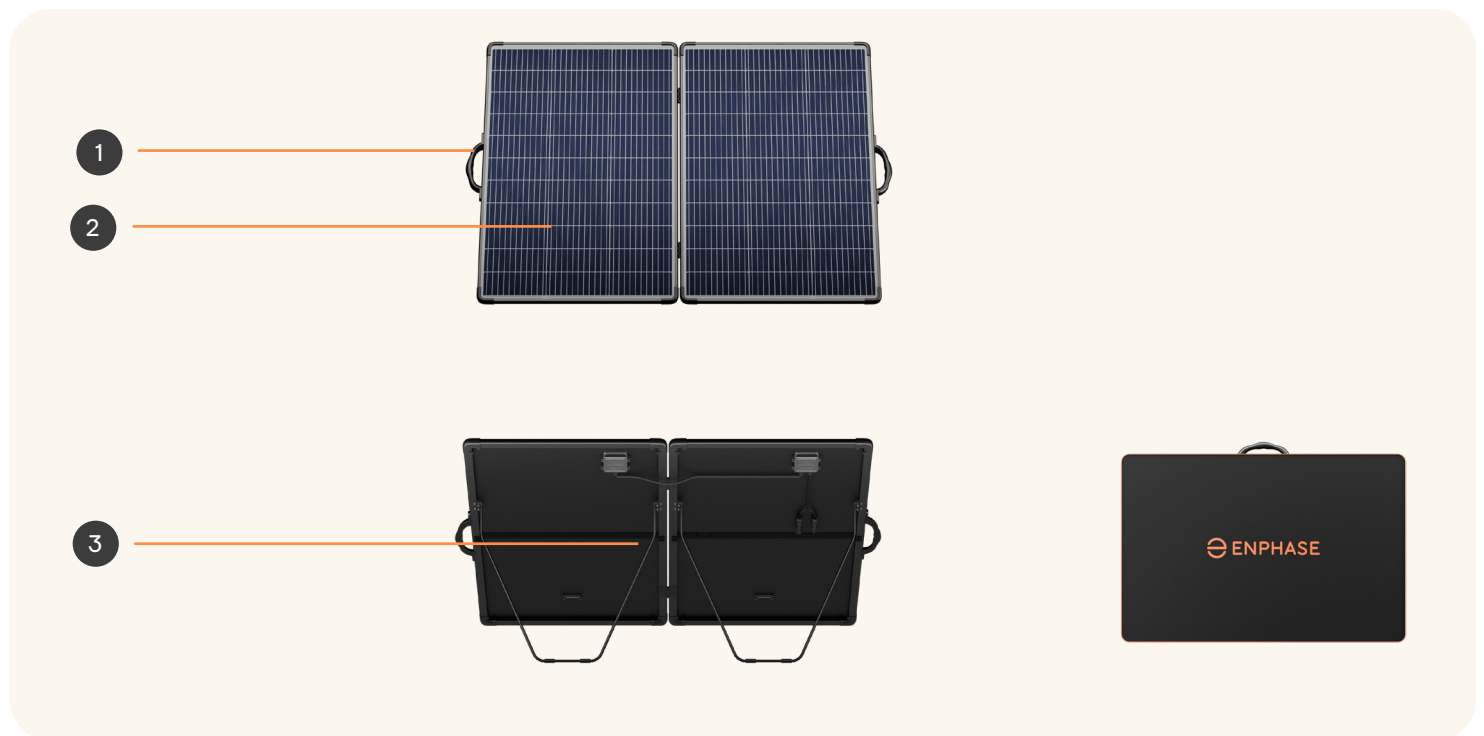
WIRELESS COMMUNICATION	
Integrated Wi-Fi	802.11 b/g/n, 2.4 GHz
Remote monitoring and control	Yes, with the Enphase App
Remote OTA ⁹ firmware updates	Yes, over Wi-Fi or cellular network
Cloud connectivity	Yes, over Wi-Fi or cellular network
Offline data monitoring	Yes, with the Enphase App via Bluetooth
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 ¹⁰
Pollution degree	Pollution degree III compliant
WARRANTY	
Limited warranty	5 years or 2500 cycles, whichever comes first
ENVIRONMENT	
Operating temperature - Charging ^{11,12}	32°F to 122°F (0°C to 50°C)
Operating temperature - Discharging ^{11,12}	-4°F to 122°F (-20°C to 50°C)
Storage temperature ¹³	-22°F to 140°F (-30°C to 60°C)
Safe operating humidity (condensing)	4-100%
Optimal operating altitude	8202 ft (2500 m)
Pressure	5-100 kPa
Acoustics ¹⁴	<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. AC output voltage is 120 V $\pm$ 5%.
3. Measured at 77°F (25°C), under standard test condition of 0.2C charge/discharge cycle.
4. User-adjustable charging current from AC Grid and DC 12 V.
Adjust the AC Input charging limit (via Enphase App or LCD touchscreen) to match the grid input current limit of the circuit breaker.
5. The acceptable voltage may vary by $\pm$ 10%.
6. Nominal voltage is 12 V. Operating voltage range is 10 V to 16 V.
7. In everyday use, your actual available capacity could be slightly lower due to operational losses.
8. LTE: Long-term evolution.
9. OTA: Over-the-air.
10. 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.
11. The temperature ranges provided are applicable to the internal battery module.
12. Using the device beyond the specified temperature range is prohibited. Charging and discharging performance may vary with temperature.
Refer to the section [Operating temperature limits](#).
13. Storing the device beyond the specified temperature range is prohibited. For detailed instructions, refer to the user manual.
14. Measured at a distance of 1 m and 25°C ambient temperature.

2.2 IQ Portable Panel parts

The IQ Portable Panel features premium A-grade monocrystalline cells to capture solar energy. When in use, the in-built support legs help the panel stand firmly on the surface and face the sun.

When not in use, the IQ Portable Panel can be folded and carried around using the in-built handles and the Solar Panel Bag. The cables and other accessories can be stored safely in the handy storage pouch on the Solar Panel Bag.



- 1 Handle
- 2 Solar panel
- 3 Support legs

2.2.1 IQ Portable Panel 200 W specifications

MODEL NO.	
PES-PSP2-200	IQ Portable Panel to charge IQ PowerPack 1500 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 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
COMPLIANCE/RELIABILITY	
Compliance	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)—1000 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.

2.2.2 IQ Portable Panel 400 W specifications

MODEL NO.	
PES-PSP-400	IQ Portable Panel to charge IQ PowerPack 1500 from sunlight
PHYSICAL CHARACTERISTICS	
Dimensions (folded) (L × W × H)	35.4 in × 23.2 in × 3.5 in (900 mm × 590 mm × 90 mm)
Dimensions (unfolded) (L × W × H)	93.0 in × 35.4 in × 1.0 in (2362 mm × 900 mm × 25 mm)
Weight	27.2 lb (12.34 kg)
Color	Black
Portable	Yes; foldable with easy-to-carry solar panel bag
Support legs	4
ELECTRICAL CHARACTERISTICS (STC) ¹	
Cell type	A-grade monocrystalline
Number of cells	132
Rated power (P_{max})	400 W
Voltage at P_{max} (V_{mp})	39 VDC
Current at P_{max} (I_{mp})	10 A
Open circuit voltage (V_{oc})	45 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
COMPLIANCE/RELIABILITY	
Compliance	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.

2.3 IQ Cart parts

The IQ Cart has four key components:

- The wheels to move the cart and wheel brakes to help the cart stay in place on a flat surface.
- The telescopic handle to ease the pulling and navigation.
- The base and latches to hold the device firmly in position.
- Rear pouch to carry the Cable Case provided with the device.



- 1 Handle button
- 2 Telescopic handle
- 3 Upper frame
- 4 Base

- 5 Wheel
- 6 Foot
- 7 Latch
- 8 Latch button

- 9 Rear pouch
- 10 Wheel brake
- 11 Base latch

2.3.1 IQ Cart Specifications

MODEL NO.	
PES-CRT-1515	Transport cart to carry the IQ PowerPack 1500
PHYSICAL CHARACTERISTICS	
Dimensions (folded)	16.5 in × 22.2 in × 7.4 in (419 mm × 564 mm × 188 mm)
Dimensions (unfolded)	16.5 in × 13.8 in × 41.9 in (419 mm × 350 mm × 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 & RELIABILITY	
Secures IQ PowerPack 1500	Yes
Wheel lock	Yes
Outdoor use	Yes
WARRANTY	
Limited warranty	5 years

3

Get started



3.1 Fully charge the device before the first-time use

Based on regulatory guidelines for battery shipping, the device will arrive with a battery charge at 30% (or less) of its full capacity.

Before starting to use the IQ PowerPack 1500, plug it into a wall socket and charge the battery to 100%. This will take about an hour and will ensure no power disruptions while connecting the device to the Enphase App for the first time or while receiving any critical first-time over-the-air (OTA) system updates from the Enphase Cloud.

If the device has not been fully charged before first-time use, it should be fully charged at the earliest possible opportunity. This will calibrate the battery for optimum performance going forward.



Things to remember:

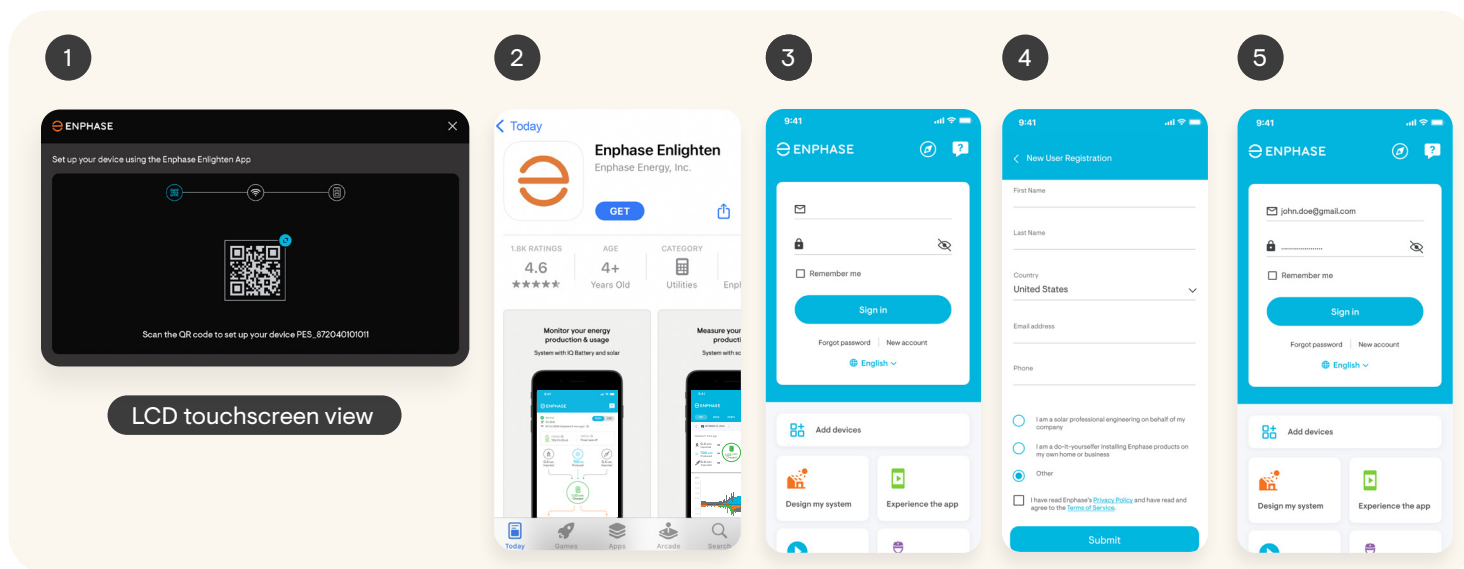
Device must be powered on and charged to full before the 'Energize by date' printed on the packaging.

3.2 Add the device to the Enphase App (Enphase Enlighten App)

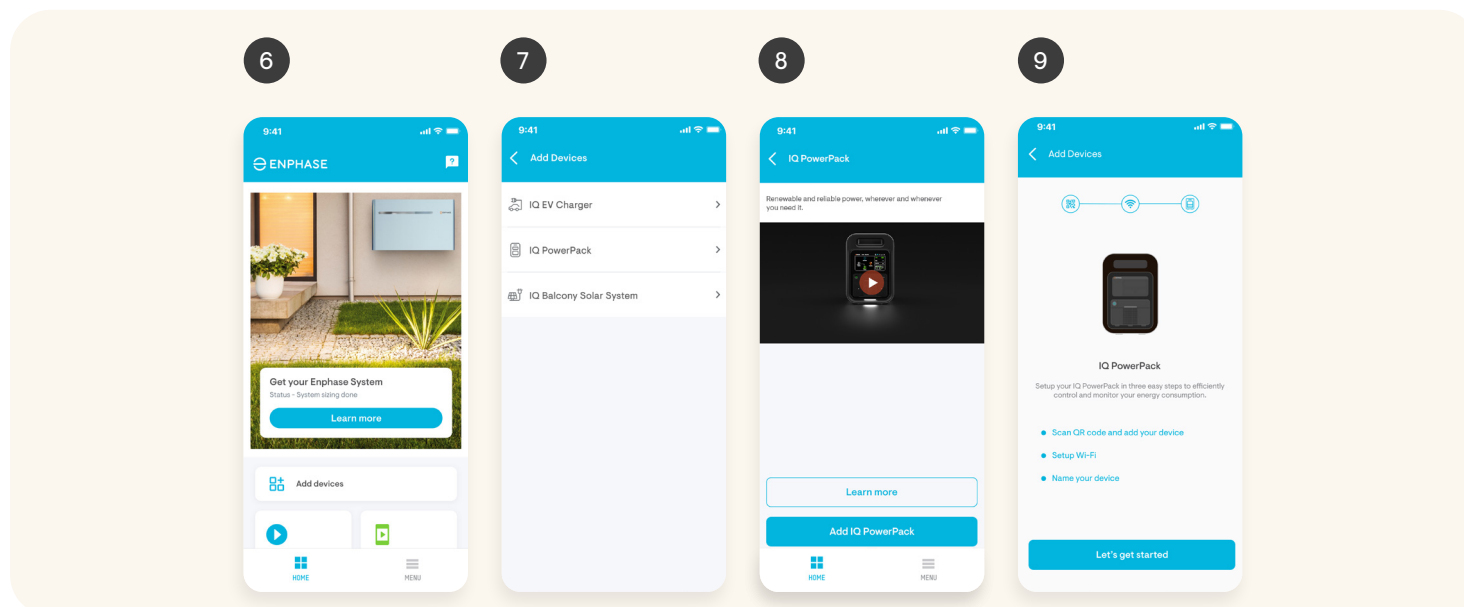
To add your device, you will need the device powered on and the Enphase App installed on your phone and signed in. Based on whether you are new to Enphase or already have an existing Enphase user account, the set-up steps will vary slightly.

3.2.1 New to Enphase

If you are a new Enphase user, follow these steps to create your Enphase Account and add the device:



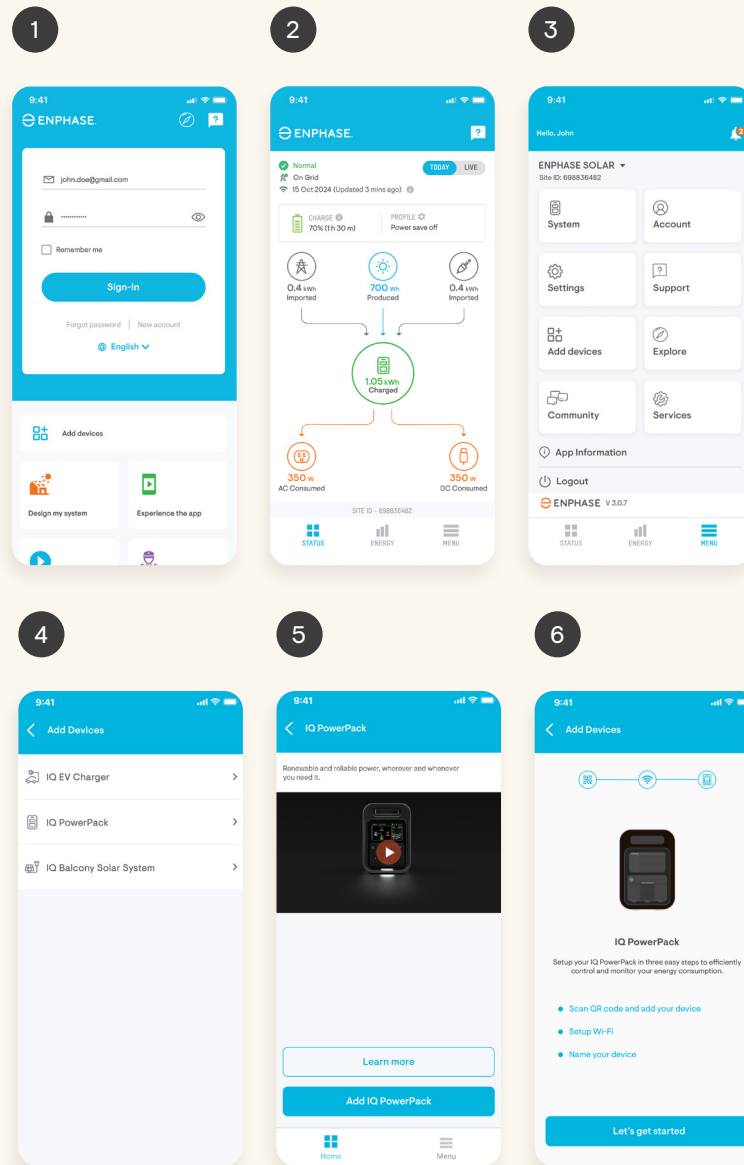
- 1 To install the Enphase App on your phone, scan the QR code displayed on the LCD touchscreen.
- 2 Once the QR code is scanned, the mobile phone will redirect to the Enphase App download page in the Play Store (for Android users) or App Store (for iOS users).
- 3 After the installation is complete, open the app and tap **New account**.
- 4 Fill in the details to create your account and set up a password.
- 5 Open the Enphase App and enter the login credentials.



- 6 Tap **Add devices**.
- 7 Tap **IQ PowerPack**.
- 8 Tap **Add IQ PowerPack**.
- 9 Follow the instructions to add your device.

3.2.2 Existing Enphase users

If you are an existing Enphase user:



1 Sign into the Enphase App.

2 Tap Menu.

3 Tap Add devices.

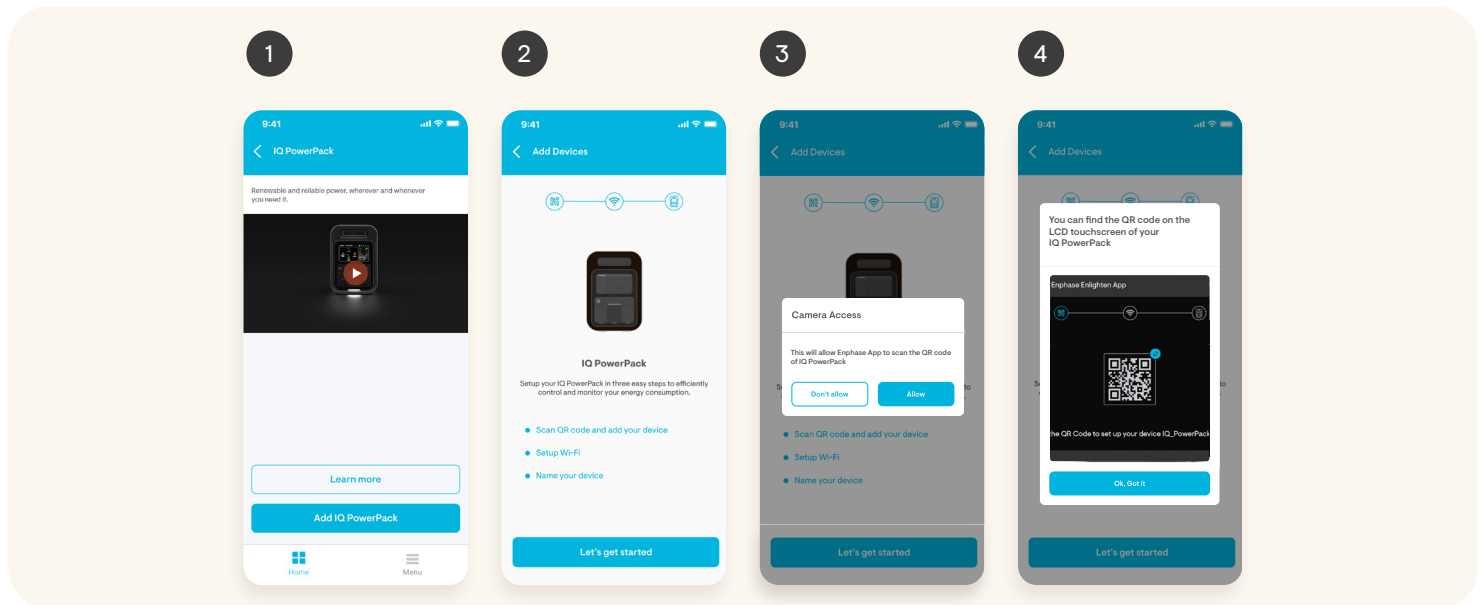
4 Tap IQ PowerPack.

5 Tap Add IQ PowerPack.

6 Follow the instructions to add your device.

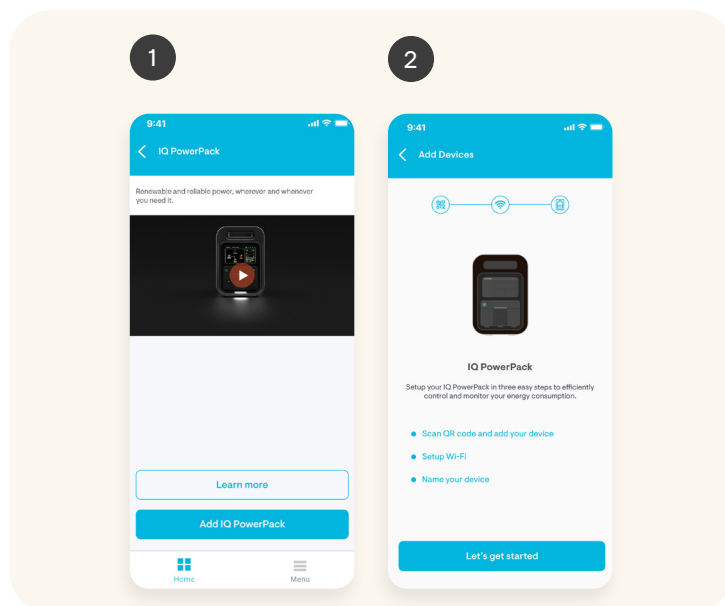
3.2.3 Steps to add a device

Option 1: Add a device by scanning the QR Code



- 1 Open the Enphase App and tap **Add a device**.
- 2 Tap **Let's get started**.
- 3 Allow the app to use the phone's camera.
- 4 Scan the QR code to add the device to the Enphase App.

Option 2: Add a device manually using Bluetooth



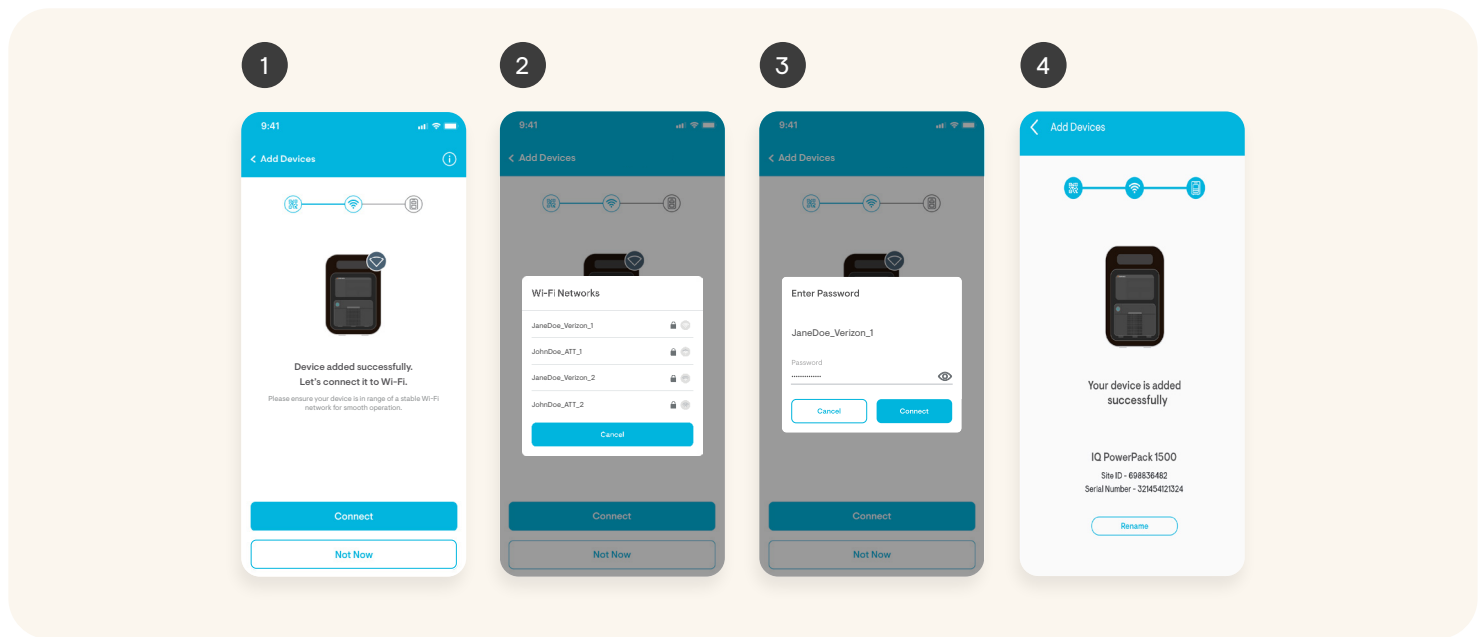
- 1 Open the Enphase App and tap **Add IQ PowerPack**.
- 2 Tap **Let's get started**.



- 3 In the manual process, camera access is not required, so tap **Don't allow**.
- 4 Tap **Connect manually**.
- 5 Tap **Connect**.
- 6 Tap **Turn on** to enable Bluetooth on the phone.
- 7 Allow the app to use Bluetooth on the phone.
- 8 Select the device from the list of Bluetooth devices to pair with.
- 9 Enter the pairing code displayed on the LCD touchscreen to connect the device to the Enphase App.

NOTE: You can find the device name and the pairing code on the LCD touchscreen of your IQ PowerPack 1500.

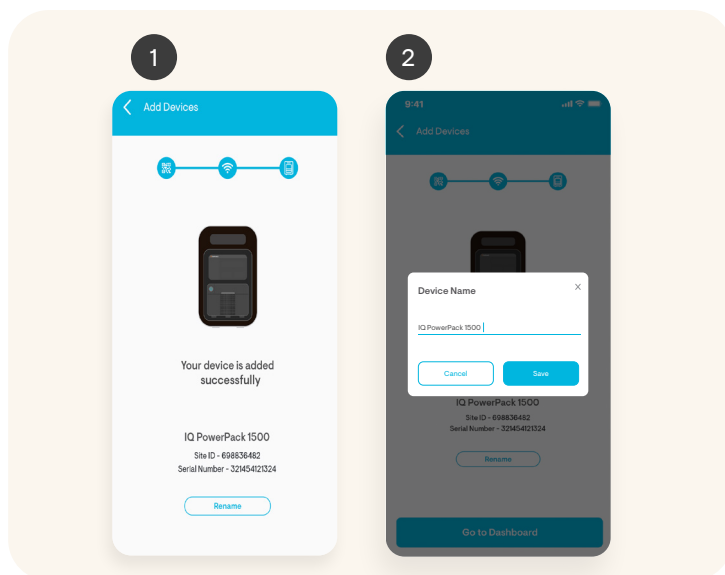
3.2.4 Steps to set up Wi-Fi



- 1 To set up Wi-Fi, after following the previous steps, tap **Add Devices** and select **Connect**.
- 2 Select the preferred Wi-Fi network from the displayed list.
- 3 Enter the **Password**.
- 4 Once the connection is established, you will see a confirmation message.

NOTE: The IQ PowerPack works only with 2.4 GHz Wi-Fi (not 5 GHz) band. If your router combines both bands under one Wi-Fi name (SSID – Service Set Identifier), create separate Wi-Fi names (SSIDs) and connect to the 2.4 GHz SSID. To set up or change Wi-Fi later, see the [Device connectivity](#) section.

3.2.5 Steps to rename the device



- 1 After the Wi-Fi setup is complete, tap **Rename** button on the confirmation screen.
- 2 Enter the name you prefer for the device and click **Save** to complete.

3.3 Keep the device connected to the internet via Wi-Fi

It is recommended to keep the device 'Always connected' to the internet via Wi-Fi so that critical device data is regularly backed up to the Enphase Cloud and OTA (over-the-air) system updates are completed immediately after they become available. The IQ PowerPack 1500 is equipped with cellular connectivity in addition to Wi-Fi. The device will automatically switch to cellular when a Wi-Fi network is not available.

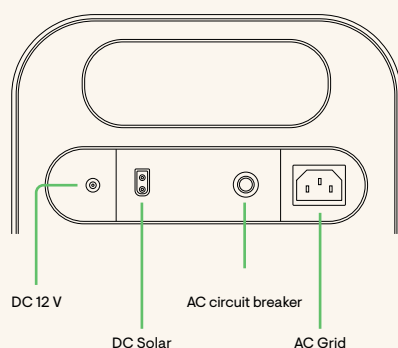
Internet connectivity is essential for a seamless user experience. The remote control and monitoring capabilities enabled by Wi-Fi and cellular connectivity not only provide numerous utility values to the users, but are also vital tools for troubleshooting and customer support should you ever run into an issue with the device.

4

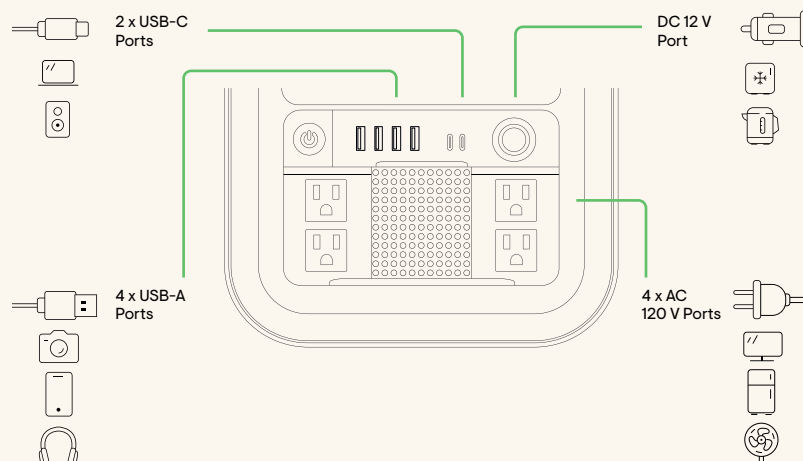
How it works



IQ PowerPack 1500
Rear panel



IQ PowerPack 1500
Front panel



The IQ PowerPack 1500 comes with a variety of options to accommodate different power inputs and outputs. The device can power most 120 V AC and DC (USB-A, USB-C, DC 12 V) appliances. It can be charged from three input sources including AC Grid, DC Solar, or a DC 12 V source like the 12 V AUX port in an automobile.

The AC 120 V output ports on the IQ PowerPack 1500 can provide a maximum of 1500 VA of pure sine wave AC power. If two or more AC 120 V output ports are in use, the total power output is up to 1500 VA. If this limit is exceeded, the IQ PowerPack 1500 will stop powering the connected appliances and display an overload error notification on the LCD touchscreen. Remove or reduce the number of connected appliances when an overload error occurs.

Motorized appliances, like blenders, power tools, washing machines, etc., require surge power for a few seconds when they are turned on (surge power is higher than the continuous operating power). The IQ PowerPack 1500 provides up to 3000 VA of surge power for up to two seconds to accommodate these devices. If the surge power requirement of an appliance or combination of appliances exceeds 3000 VA, the IQ PowerPack 1500 will stop powering the appliance(s), and an error notification will be displayed on the LCD touchscreen.

Each USB-A output port delivers a maximum power of 15 W (5 V, 3 A). Each USB-C output port delivers a maximum power of 60 W (20 V, 3 A). In certain situations, the ports may be limited to a maximum power of 45 W each to prevent thermal shutdown. The DC 12 V output port delivers a maximum power of 120 W (12 V, 10 A).

The device has a DC-rated storage capacity of 1532 Wh with fast-charging capability. When the device's battery is fully drained, it can be fully charged to 100% in less than 75 minutes from the AC Grid input. Charging from two 200 W IQ Portable Panels might take up to 4 hours to fully charge the device. Whereas a vehicle's DC 12 V output port would take up to 14 hours to charge the device fully.

4.1 'Power On' the device

The IQ PowerPack 1500 can be powered on by:

- Using the power button
- Plugging to any of the input charging sources

4.1.1 Using the power button



4.1.2 Plug in an input source

The device is automatically powered on upon connecting to AC Grid, DC Solar, or a DC 12 V input source. This action boots up the device and starts charging it.

- 1 Press the power button for more than a second (long press) to 'Power On' the device.
- 2 The power button displays different colors to signify different states of the device:
 - Power On → Green light
 - Power Save → Blue light
 - Fault → Red light
 - Power Off → No light

4.2 ‘Power Off’ the device

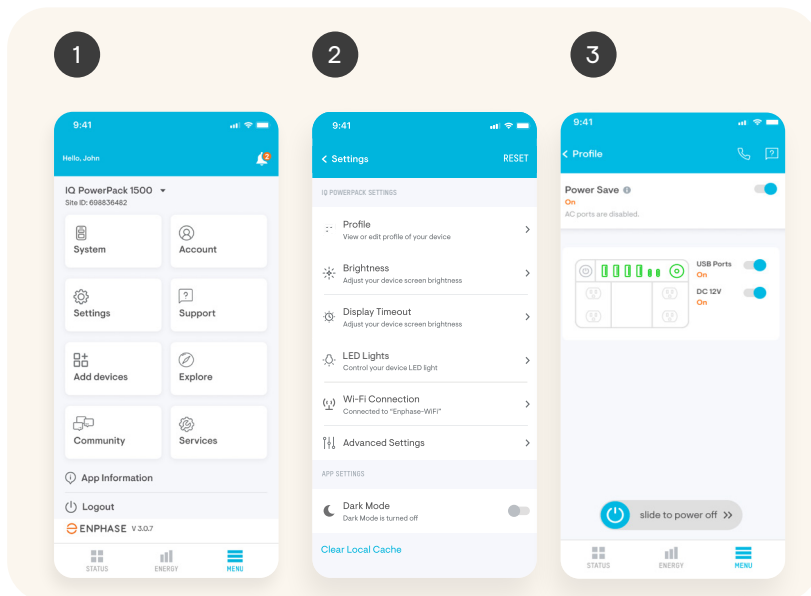
The device can be powered off using the power button, the Enphase App, or the LCD touchscreen.

4.2.1 Using the Power button

When the IQ PowerPack 1500 is already powered on, it can be powered off by pressing the Power button for more than a second.

4.2.2 Using the Enphase App

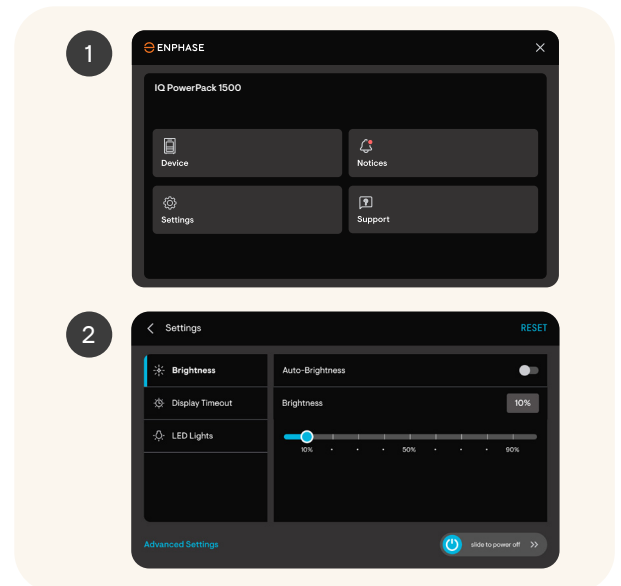
The device can be powered off remotely, with the Enphase App:



- 1 Tap **Menu** and select **Settings**.
- 2 Select **Profile**.
- 3 Slide the **Power Off** button.

4.2.3 Using the LCD touchscreen

The device can be powered off using the LCD touchscreen:

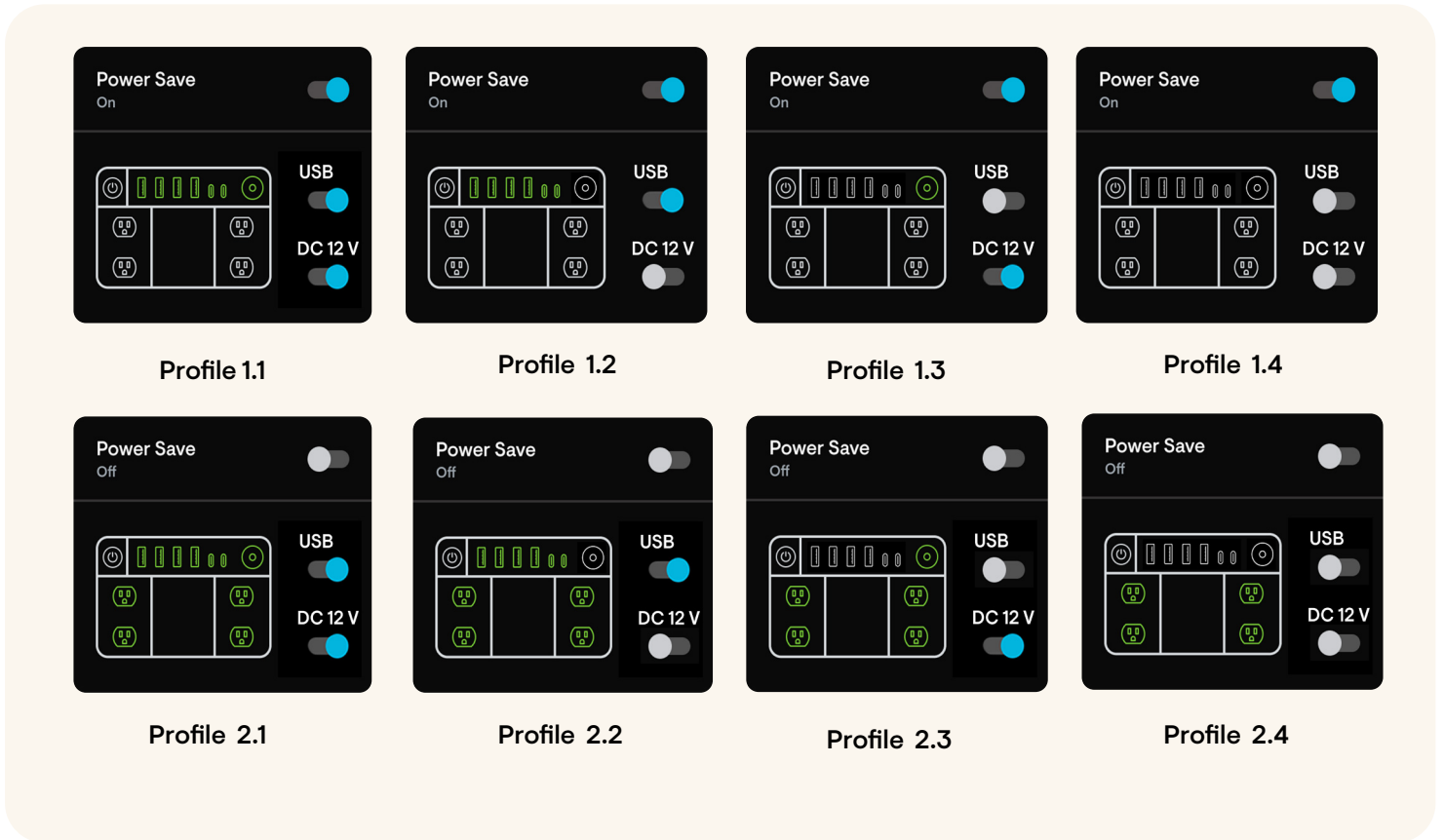


- 1 Tap **≡** icon and select **Settings**.
- 2 Slide the **Power Off** button.

4.3 Device profiles

The IQ PowerPack 1500 has three primary profiles: Power On, Power Save, and Power Off.

When Power Save is On, all AC output ports are disabled. When Power Save is Off, all AC output ports are enabled, and you can manually turn the USB and DC 12 V ports On or Off.



PROFILE	STATUS	AC PORTS	USB PORTS	DC 12 V PORT
Profile 1.1	Power Save	Off	On	On
Profile 1.2	Power Save	Off	On	Off
Profile 1.3	Power Save	Off	Off	On
Profile 1.4*	Power Save	Off	Off	Off
Profile 2.1	Power On	On	On	On
Profile 2.2	Power On	On	On	Off
Profile 2.3	Power On	On	Off	On
Profile 2.4	Power On	On	Off	Off

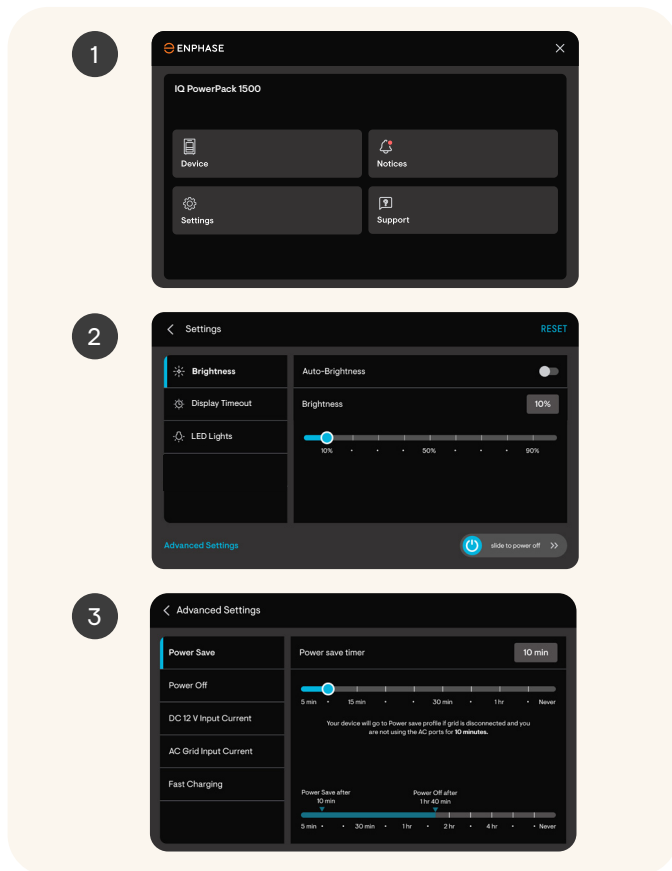
*This profile is used when the device is charging from solar panel(s).

4.3.1 Auto Power Save

The **Auto Power Save** feature helps to conserve battery power by turning off the AC 120 V output ports when they are not in use. **Auto Power Save** can be enabled on the LCD touchscreen or in the Enphase App. A timer is provided to set the turn-on time of **Auto Power Save**.

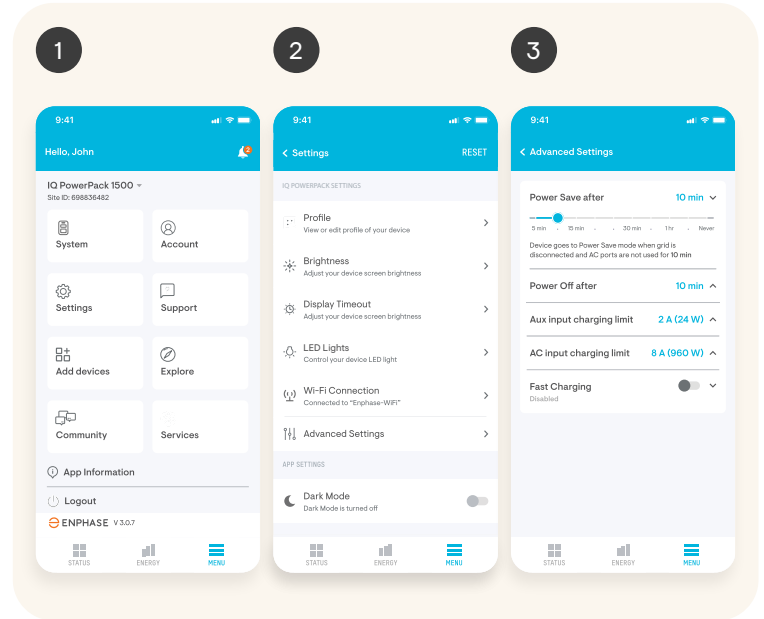
The **Power Save after** timer is set to a default value per factory setting. You can change the default value through the LCD touchscreen or the Enphase App.

LCD touchscreen:



- 1 Tap icon and select **Settings**.
- 2 Tap **Advanced Settings** and select **Power Save**.
- 3 Adjust the slider to a new value.

Enphase App:



- 1 Tap **Menu** and select **Settings**.
- 2 Tap **Advanced Settings** and select **Power Save**.
- 3 Adjust the slider to a new value.



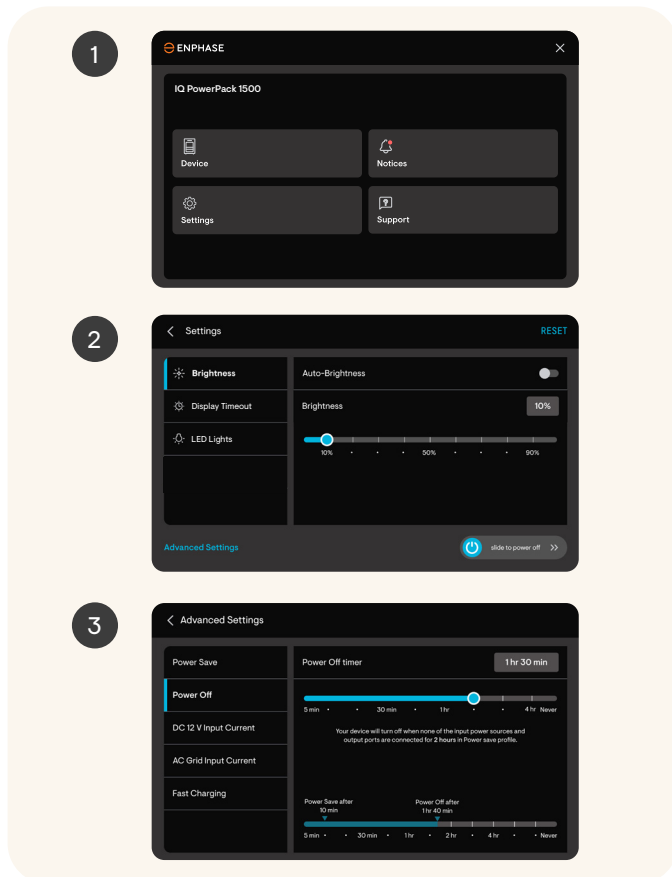
Things to remember:

- The device will not automatically switch to **Power Save** if an AC appliance is connected or if the AC Grid Charging Cable is connected to charge the device or if the **Power save timer** is set to **Never**.
- When the device's state of charge (SoC) reaches 5%, the device enters **Power Save** profile automatically to preserve battery power.

4.3.2 Auto Power Off

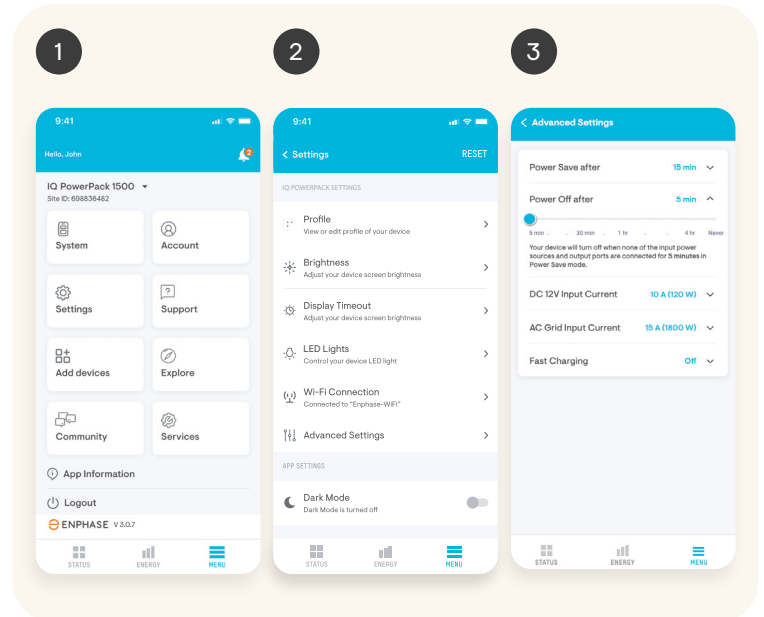
The **Auto Power Off** feature helps to conserve battery power by turning off the device when not in use. A timer is provided on the LCD touchscreen and in the app to set the timing of **Auto Power Off**.

LCD touchscreen:



- 1 Tap icon and select **Settings**.
- 2 Tap **Advanced Settings** and select **Power Off**.
- 3 Adjust the slider to a new value.

Enphase App:



- 1 Tap **Menu** and select **Settings**.
- 2 Tap **Advanced Settings** and select **Power Off after**.
- 3 Adjust the slider to a new value.



Things to remember:

- The device does not switch off automatically if any appliance or charging sources are connected.
- The **Auto Power Off** timer can start only after the device is in **Power Save** profile and the device is not in use.
- When the battery drains down to 0%, the device shuts down automatically.
- Do not exceed 14.6V on the DC 12V port. It may result in damage and void warranty for the device.

4.3.3 Change the device profile

The device profile can be changed between **Power On**, **Power Off**, and **Power Save** in various ways:

- Pressing the power button
- Using the LCD touchscreen
- Using the Enphase App (remotely)
- Certain device conditions or user actions
- Automatically due to device inactivity

CHANGE PROFILE		USER ACTION TO CHANGE PROFILE
Power Off to Power On	• Power button	• Long press (>1 sec)
	• User action	• Plug in and provide power to any of the input sources
Power On to Power Off	• Power button	• Long press (>1 sec)
	• LCD touchscreen	• Slide the Power Off bar in Menu > Settings
Power On to Power Save	• Enphase App	• Slide the Power Off bar in Menu > Settings > Profile
	• Power button	• Short press (<1 sec)
Power On to Power Save	• LCD touchscreen	• Tap the Power Save toggle button on the home screen
	• Enphase App	• Tap the Power Save toggle button in Menu > Settings > Profile When battery charge drops below 5%
Power On to Power Save	• Device condition	• When there is no AC Grid input source and no AC output loads, after the Auto Power Save timer expires
	• Device inactivity	
Power Save to Power On	• Power button	• Short press (<1 sec)
	• LCD touchscreen	• Tap the Power Save toggle button on the home screen
Power Save to Power On	• Enphase App	• Tap the Power Save toggle button in Menu > Settings > Profile
	• User action	• Plug in and provide power to the AC Grid input port
Power Save to Power Off	• Power button	• Long press (>1 sec)
	• User action	• Slide the slide to Power Off button in Menu > Settings
Power Save to Power Off		• Slide the slide to Power Off button in Menu > Settings > Profile
		• When there are no loads and no input sources connected, after the Auto Power Off timer expires.



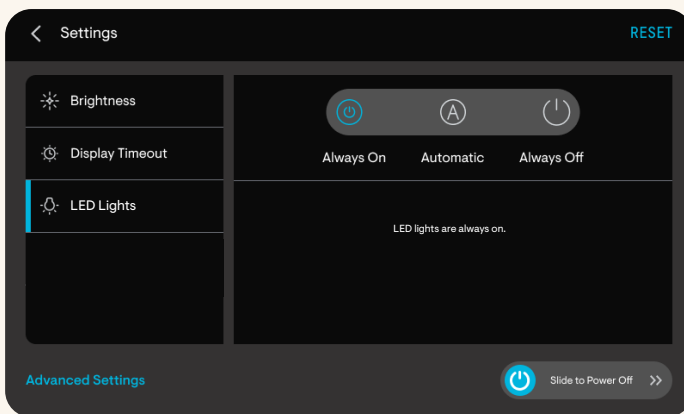
Things to remember:

The device does not switch off by the power button when being charged by the IQ Portable Panels.

4.4 LED lights

The IQ PowerPack 1500 has LED lights at the bottom of the front panel that can provide illumination in low-light conditions.

To control the LED lights, one of the below three states can be selected using the LCD touchscreen or the Enphase App.



1

Always On:

the LED lights are always on when the device is not in **Power Off** profile.

2

Automatic:

the LED lights are automatically turned on during dim light conditions and are automatically turned off in bright light conditions when the device is not in **Power Off** profile.

3

Always Off:

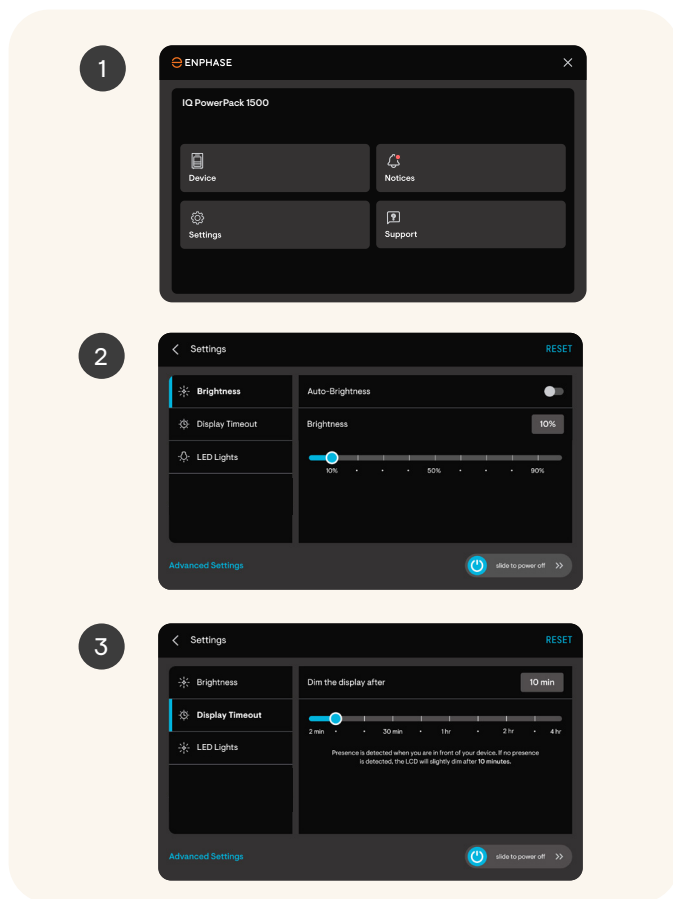
the LED lights are always off.

4.5 Proximity sensing and LCD touchscreen brightness

When a user approaches the device (within 1.5 feet range of the proximity sensor), the LCD touchscreen automatically wakes up.

The brightness of the LCD touchscreen turns from dim (the lowest brightness setting) to the current brightness setting that has been set by the user.

LCD touchscreen:

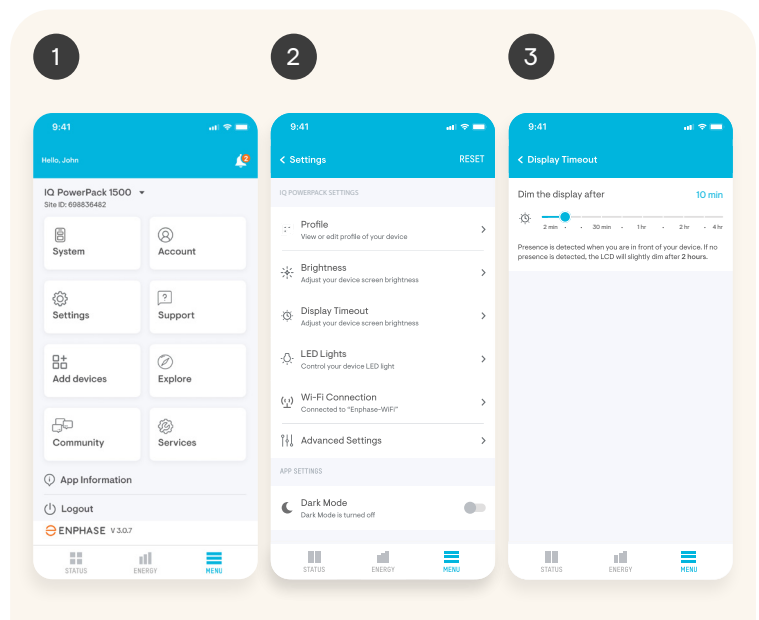


- 1 Tap icon and select **Settings**.
- 2 Tap **Display Timeout**.
- 3 Adjust the slider to a new value.

When the **Auto-Brightness** of the LCD touchscreen is enabled, the device automatically adjusts the LCD touchscreen's brightness to an optimum level.

After a short duration of inactivity, the LCD touchscreen will automatically dim to save power. The duration of inactivity can be set by a timer on the LCD touchscreen and in the Enphase App.

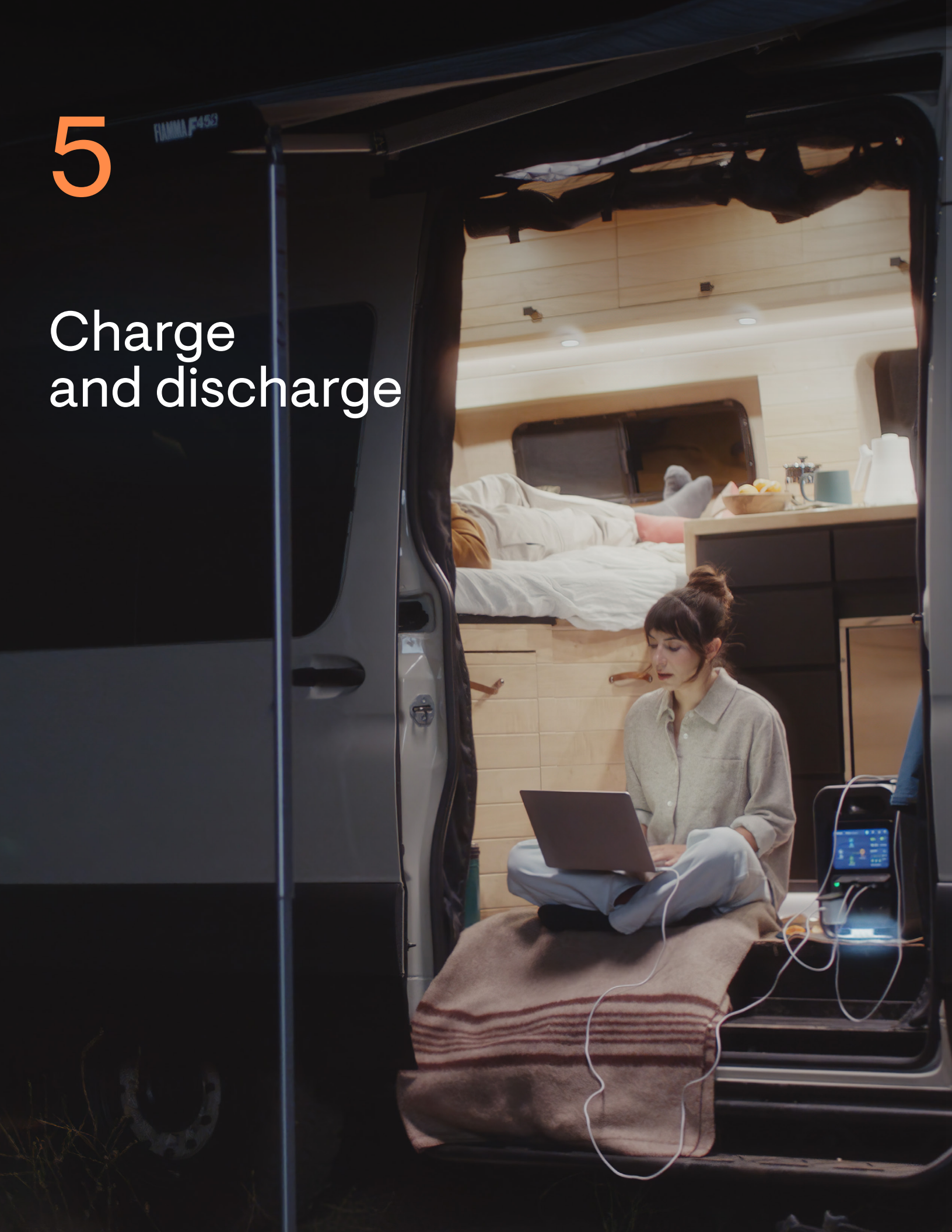
Enphase App:



- 1 Tap **Menu** and select **Settings**.
- 2 Tap **Display Timeout**.
- 3 Adjust the slider to a new value.

5

Charge and discharge



5.1 Charging the device

The IQ PowerPack 1500 can be charged from various AC and DC input sources. The device works with most 120 V AC outlets at home, in a car, or at a campground. DC input-wise, the IQ Portable Panels and the DC 12 V AUX port from automobiles can be used to charge the device.

5.1.1 Charge from an AC source

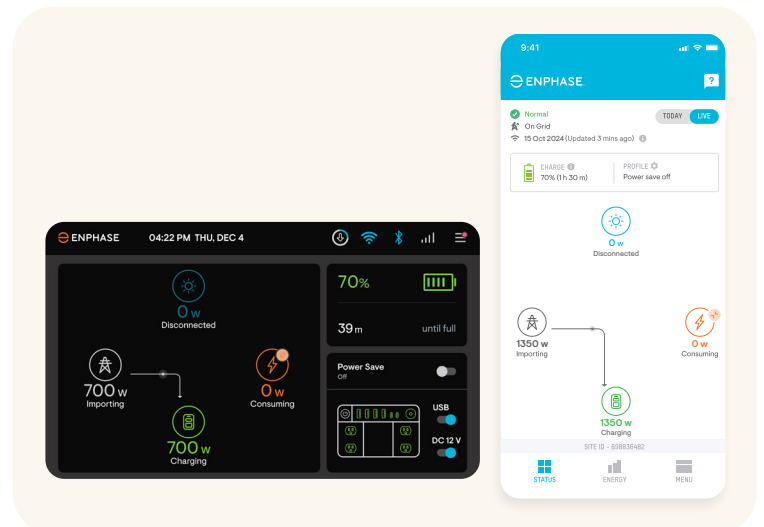
Charge from the wall socket (AC Grid)

To charge the IQ PowerPack 1500 from a wall socket, use the AC Grid Charging Cable provided with the device. To connect and charge the device:

- 1 Lift the protection covers on the rear panel of the device to access the AC Grid input port.
- 2 Connect the AC Grid Charging Cable to the AC Grid input port on the rear panel of the device.
- 3 Insert the plug on the other end of the AC Grid Charging Cable into the wall socket.
- 4 When both ends of the AC Grid Charging Cable are properly plugged in, both the LCD touchscreen and Enphase App will show an increase in the power value of the grid icon, and the icon status will change from 'Disconnected' to 'Importing'.

! Things to remember:

The device charges at 1350 W by default. This can be increased by enabling Fast Charging.





Things to remember:

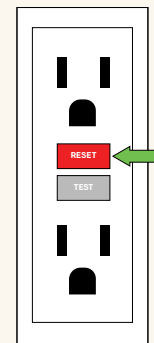
- Do not touch the metal pins of the ports or the end of the charging cables with bare fingers.
- Only use the AC Grid Charging Cable of 14 AWG thickness, provided by Enphase. Using cables smaller than 14 AWG thickness will reduce or hinder the device's ability to charge.
- If you lose or misplace the cable, a replacement cable can be purchased from the [Enphase Store](#).
- Do not use long extension cables; such cables may reduce the device's ability to charge or may not even charge at all. If a longer cable is required, use cables of at least 12 AWG or 10 AWG thickness that are commonly available at home improvement stores.
- Ensure that the wall socket is turned on and delivering power.
- Some wall sockets are protected by a 10 A circuit breaker instead of the standard 15 A breaker. In such a case, reduce the AC input charging limit to 10 A through the 'Advanced Settings' section on the LCD touchscreen or the Enphase App.
- The device may encounter issues while charging or running loads when connected to a home wall outlet that is protected by AFCI/GFCI interrupters. In such a situation, avoid these outlets and instead use regular wall outlets.
- The charging speed will slow down when charging the device at 0% battery.
- Do not connect the AC Grid Charging Cable to the AC output ports.
- Do not connect the AC output port of one device to the AC Grid input port of another device.
- At higher temperatures, the charging speed slows down.

Charge from the GFCI socket

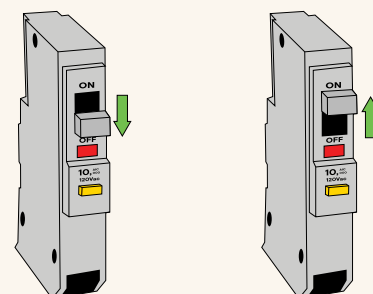
A GFCI outlet can trip due to several factors. To resume charging the IQ PowerPack, follow the instructions provided below.

1. If a GFCI socket or a GFCI breaker trips, reset them to restore power.
 - To reset a GFCI socket press the RESET button as depicted in the image (1).
 - Often when the breaker trips it falls to the middle position. Make sure to first move the lever all the way down to the OFF position and then move it back to the ON position, as depicted in image (2).
2. Sometimes a non-GFCI socket is protected by a GFCI socket somewhere else in the house. In such cases, try resetting all GFCI sockets in the house.
3. If a GFCI socket trips repeatedly, move IQ PowerPack to a non-GFCI socket.
4. Try reducing the number of appliances on the GFCI socket.
5. Try reducing the number of appliances on the circuit associated with a GFCI breaker.

1 GFCI socket



2 GFCI breaker



Charge from other types of AC sources



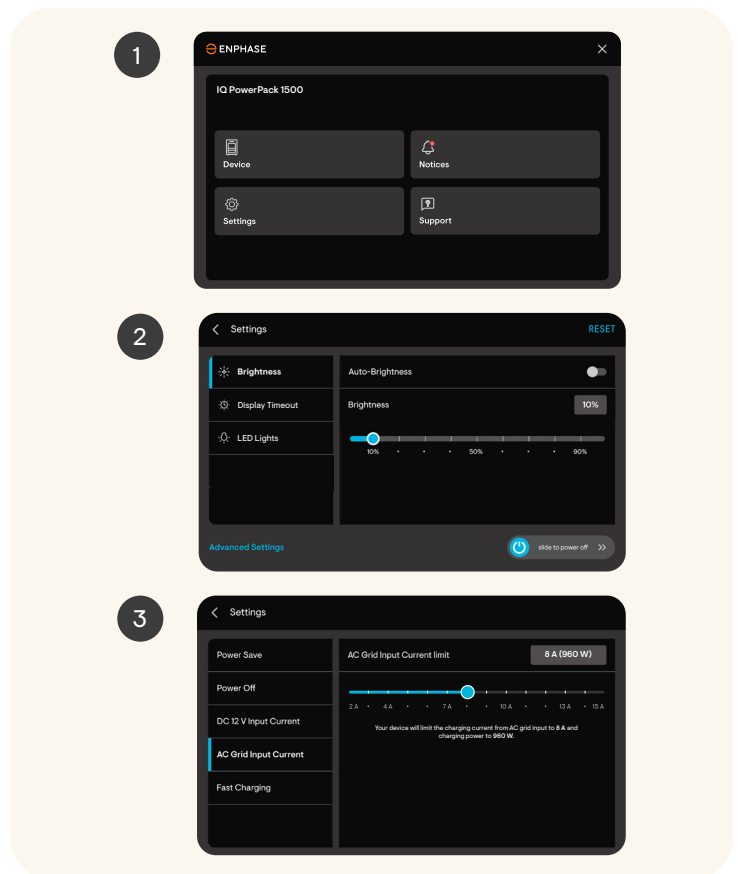
The IQ PowerPack 1500 can accept AC input power not only from the wall socket but also from a variety of AC sources including the AC output port in automobiles or a generator*.

The maximum current provided by the AC output ports in an automobile may be lower than that from a wall socket. If the IQ PowerPack 1500 draws more power than what the automobile's AC output port can provide, then the automobile port may trip. To avoid such a situation, reduce the current limit of the AC input port of the device to the maximum current that the automobile's output port can provide.

As an example, if the automobile's AC output port can provide a maximum power of 960 W (120 V, 8 A), then set the device's input port limit to 8 A through the Enphase App or the LCD touchscreen:

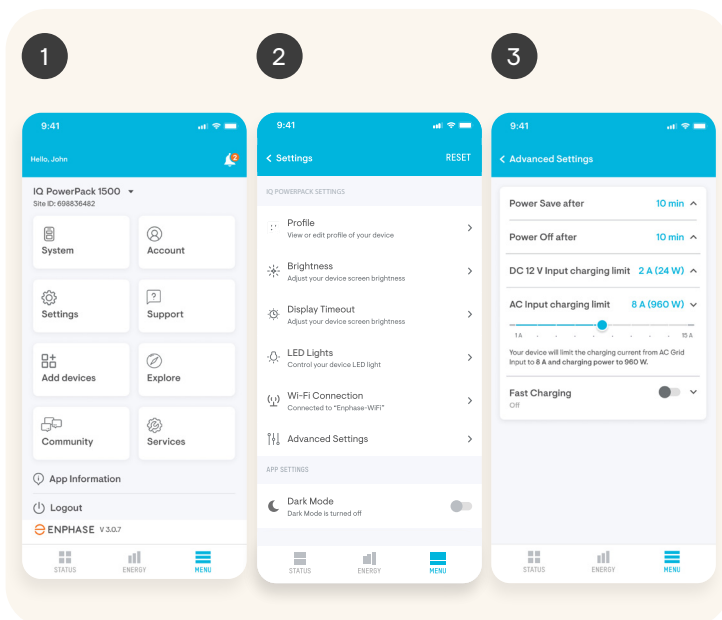
* Compatibility subject to certain brands and models.

LCD touchscreen:



- 1 Tap  icon and select **Settings**.
- 2 Tap **Advanced Settings**.
- 3 Tap **AC input charging limit** and adjust the slider to an appropriate value.

Enphase App:



Things to remember:

- The AC input current limit remains set at the user-specified level. If faster charging is desired, reset the current limit to its default maximum when charging from a wall socket or other higher-power AC sources.
- When the AC input current limit is set to a different value than the default, a notification will be displayed in the Enphase App.
- System performance and behavior may vary when used with a generator as an AC source.

1 Tap Menu, and select Settings.

2 Tap Advanced Settings.

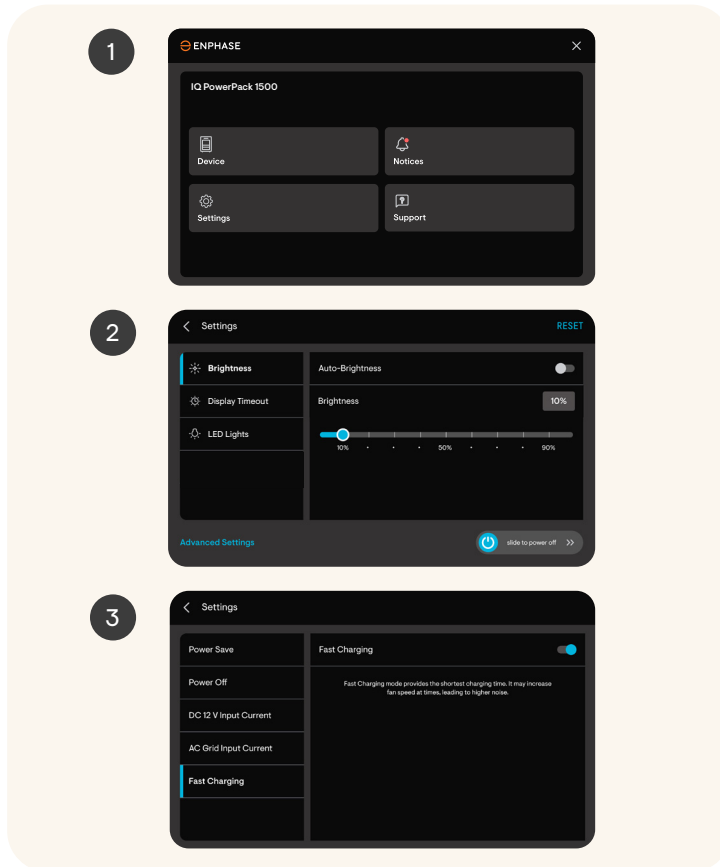
3 Tap AC Input charging limit and adjust the slider to the appropriate value.

To figure out what is the output current/power provided by the external AC source, look at the markings adjacent to the output socket of the AC source or review supplier-provided documents of the external AC source.

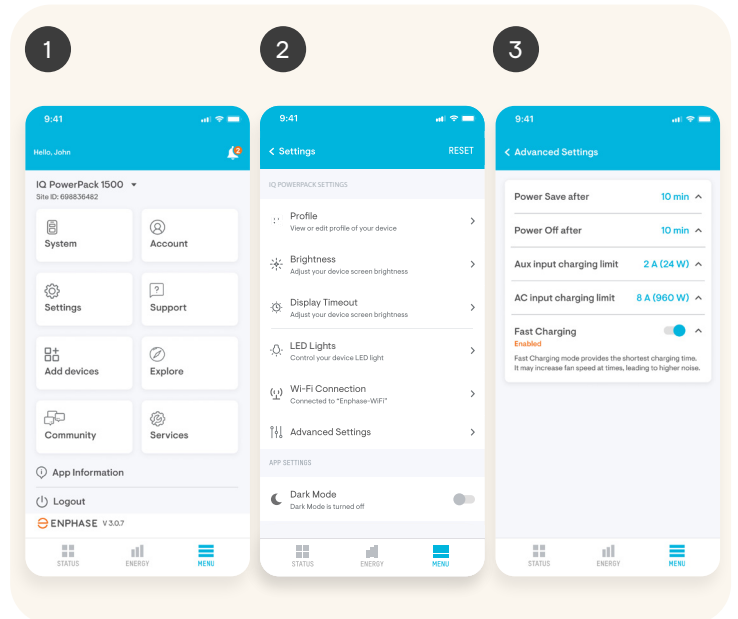
Fast Charging

The battery inside the IQ PowerPack 1500 can be charged from 0% to 100% in 75 minutes through the wall socket using the Fast Charging mode, available on the LCD touchscreen or in the Enphase App.

LCD touchscreen:



Enphase App:



- 1 Tap Menu and select **Settings**.
- 2 Tap **Advanced Settings**.
- 3 Toggle the **Fast Charging** button.

- 1 Tap  icon and select **Settings**.
- 2 Tap **Advanced Settings**.
- 3 Enable the **Fast Charging** button.



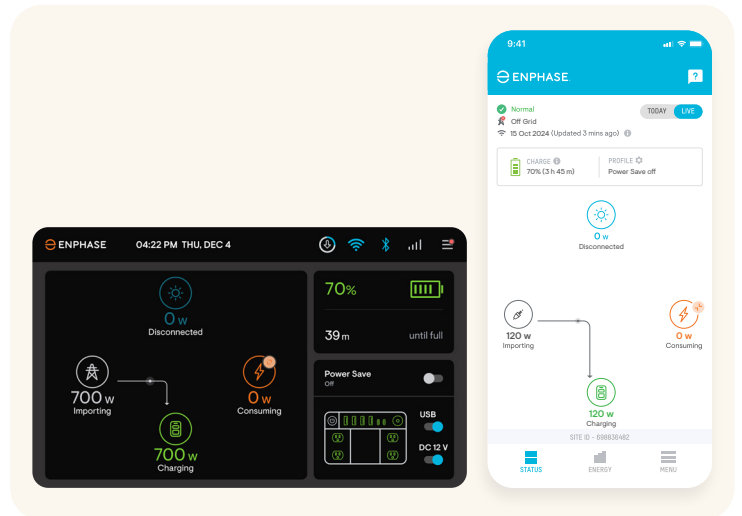
Things to remember:

- Once charging is complete, remember to disable **Fast Charging** so that the device goes back to operating at its default charging mode.
- In **Fast Charging** mode, the IQ PowerPack 1500 uses a more aggressive thermal management algorithm to keep the battery operating within safe limits. As a result, higher fan noise may be observed.

5.1.2 Charge from DC 12 V source

To charge the IQ PowerPack 1500 from a DC 12 V input source, use the DC 12 V Charging Cable provided with the device. A DC 12 V AUX output port (e.g., a cigarette lighter) can be found in most automobiles. To connect and charge the device:

- 1 Lift the protection covers on the rear panel of the device to access the DC 12 V input port.
- 2 Connect the smaller plug on the DC 12 V Charging Cable to the DC 12 V input port on the rear panel of the device.
- 3 Insert the bigger plug (with the red light) on the DC 12 V Charging Cable into the DC 12 V AUX output port of the automobile.
- 4 When both ends of the DC 12 V Charging Cable are securely plugged in, the LCD touchscreen and Enphase App will show an increase in the power value of the DC 12 V port, and the icon status will change from 'Disconnected' to 'Importing'.

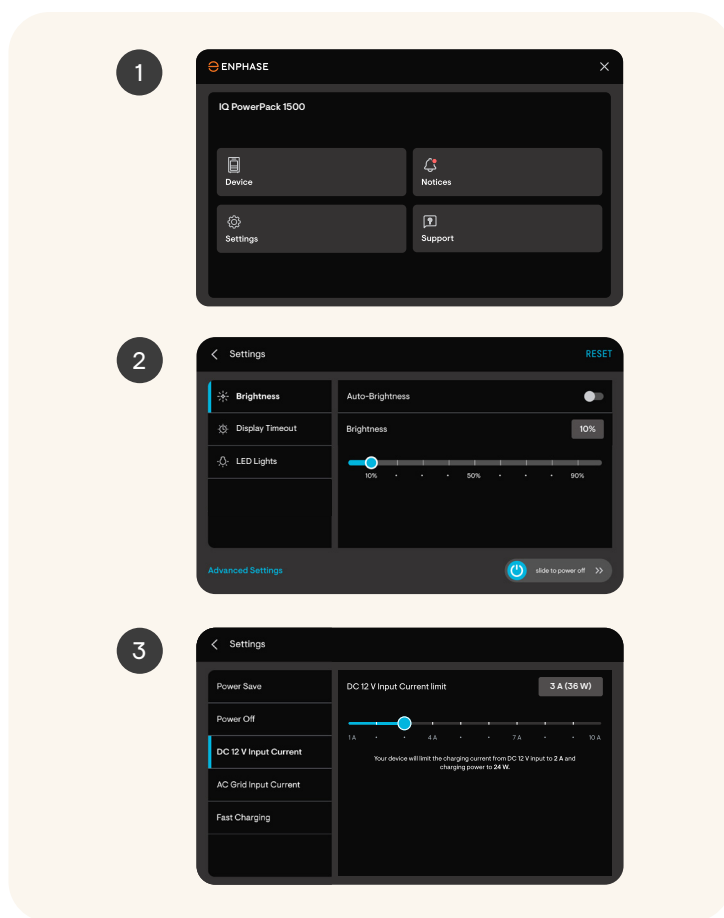


Things to remember:

- While charging your IQ PowerPack 1500 from the 12 V AUX port of a vehicle, **make sure to secure the device to avoid any harm while driving.**
- Only use the DC 12 V Charging Cable provided by Enphase. Unauthorized cables may result in fuse trips. If you lose or misplace the Enphase cable, a replacement cable can be purchased from the [Enphase Store](#).
- There is a red LED light on the cylindrical plug of the DC 12 V Charging Cable. When the red-light glows, the charging cable is functioning properly. If it does not glow, one of the following errors may have occurred:
 - The DC 12 V port of the automobile is not providing any power.
 - The charging cable's fuse has blown.
 - The automobile's fuse has blown, or the circuit breaker has tripped.

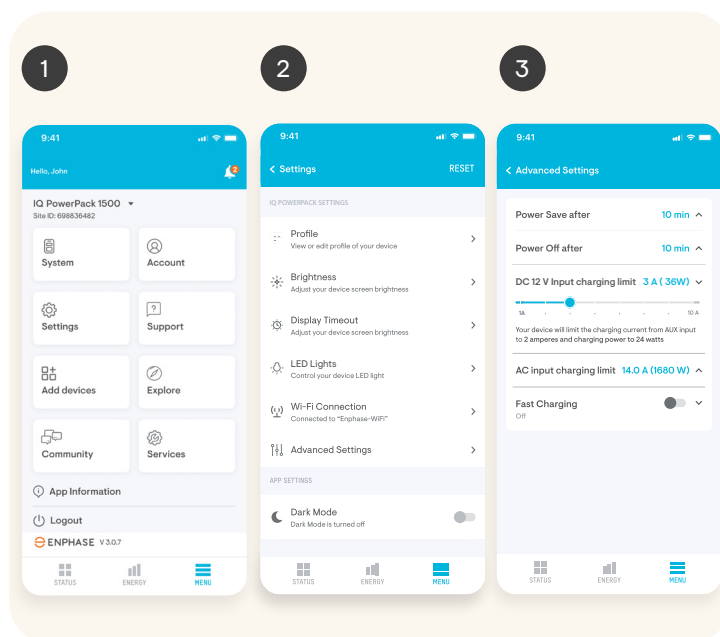
The DC 12 V input port is designed to draw up to 120 W (12 V, 10 A) when connected to a DC 12 V power source. However, if the DC 12 V source's maximum output power is less than 120 W (which could be the case in some automobiles or other 12 V DC sources), then the source may stop supplying power when the IQ PowerPack 1500 attempts to draw more than what the source can supply. To avoid such situations, the device's DC 12 V input port should be configured to match the DC source's maximum power limit on the LCD touchscreen or in the Enphase App.

On the LCD touchscreen:



- 1 Tap  icon and select **Settings**.
- 2 Tap **Advanced Settings**.
- 3 Select the **DC 12 V Input current limit** tab and adjust the slide bar to an appropriate value.

In the Enphase App:



- 1 Tap **Menu** and select **Settings**.
- 2 Tap **Advanced Settings**.
- 3 Select the **DC 12 V Input charging limit** tab and adjust the slide bar to an appropriate value.



Things to remember:

- Once the DC 12 V input port's charging limit is set to a lower value than the default maximum 10 A, the new setting will remain until changed. It is recommended that the user resets the value back to the default maximum when needed.
- If the input current limit is set to a different value from the default, a notification will be displayed on the LCD touchscreen.
- If a longer cable is used to charge than what is provided by Enphase, then such a cable may reduce the device's ability to charge or may not even charge at all.
- Do not exceed 14.6 V on the DC 12 V port. It may result in damage and void warranty for the device.

5.1.3 Charge from IQ Portable Panel

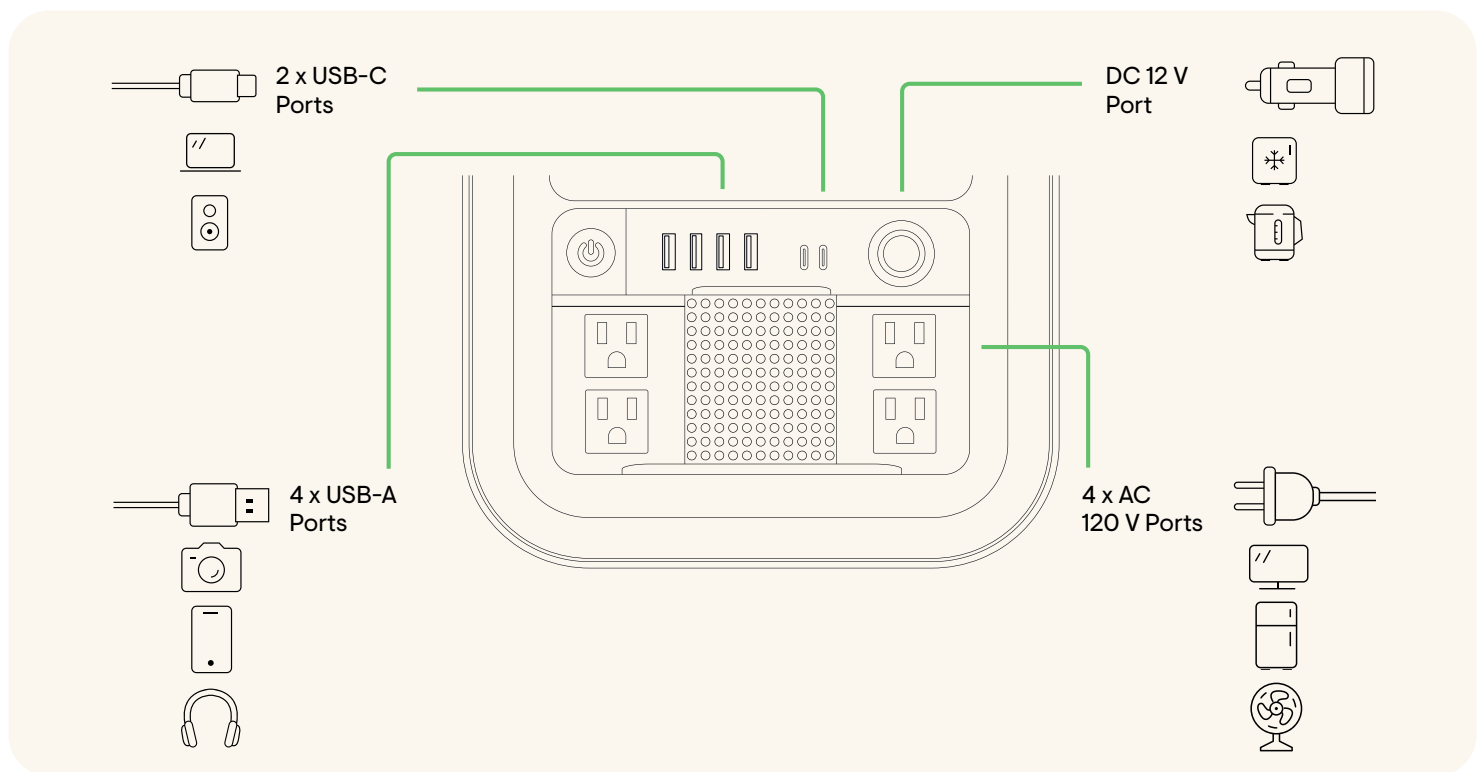
The IQ Portable Panel provides an independent source of renewable energy that adds solar generator capability to the IQ PowerPack 1500.

To understand the solar charging mechanism of the IQ PowerPack 1500, refer to the [How to use - IQ Portable Panel](#) section.

5.2 Do not daisy-chain multiple devices

Do not connect the AC output port of one IQ PowerPack 1500 to another IQ PowerPack 1500's AC Grid input port. It will lead to unexpected behavior in both devices or may cause damage and void the warranty of the device.

5.3 Connect AC and DC appliances



The device can power up to four AC, four USB-A, two USB-C, and one DC 12 V appliance.

5.3.1 AC powered appliances

To connect AC-powered appliances, lift the protection cover of one of the AC 120 V output ports and plug in the appliance. If the device is in the **Power On** profile, no action is required, and the output port will immediately power the appliance. If the device is in the **Power Save** profile, change it to **Power On** to run AC appliances with a short press on the power button.

5.3.2 DC powered appliances

To connect DC-powered appliances, lift the protection cover of the DC output port and plug in the appliances. There are three types of DC output ports available on the device's front panel, including USB-A, USB-C, and DC 12 V ports. Refer to the [IQ PowerPack 1500 specifications](#) section to understand the maximum current and power output that can be supported by each port. The DC output ports are always turned on when the IQ PowerPack 1500 is in either the **Power On** or **Power Save** profile.



Things to remember:

- When the device is connected to a wall socket, power is provided to charge the battery, and to the AC loads simultaneously. However, priority is given to powering the AC loads. Only the remaining power after being consumed by the AC loads will charge the battery.
- When the device is connected to the wall socket, AC 120 V output ports can deliver up to 1800 W. However, If the device is not connected to the wall socket, the AC 120 V output ports can deliver up to 1500 W.
- Do not use the DC 12 V output port of the device to jump-start an automobile as the device is designed for such a situation.
- Only use USB cables compliant with the USB standards. Non-compliant cables or cables longer than 3 m may reduce performance or may not work.
- When both the USB-C ports are connected to 60 W output loads, the output power from one of the two ports may be lowered to 45 W, to prevent device shutdown.

5.4 Charge and discharge performance

The IQ PowerPack 1500 is designed to provide the best charge and discharge performance for the most demanding applications. In addition to fast charging times, lower acoustic noises, and consistent power outputs, the IQ PowerPack 1500 is thermally managed to allow continuous charge-discharge cycles at maximum rating.

The device can be charged from 0% to 100% at 1500 W and then immediately discharged at 1500 W for multiple cycles without having to wait for the device to cool down. The device can achieve comparable performance across its operating temperature range.

5.5 Operating configurations

Charging configuration

In this configuration, only input ports are connected. The primary activity of the device is to charge its battery. There is no AC or DC appliance connected. Any of the three—AC 120 V, DC Solar, or a DC 12 V input source—can be connected to charge the IQ PowerPack 1500.



Things to remember:

- When the device is recovering from very low battery SoC or when SoC exceeds 90%, then the charging speed slows down.

Grid passthrough

In this configuration, the AC grid input port is connected, with one or more output ports also connected. The device uses the power from the AC input source to power the connected appliances directly, and uses the remaining power drawn from the AC grid to charge its battery.



Things to remember:

- Output power at or greater than 12 A is only available for a maximum continuous duration of three hours. This limitation is applied to comply with NEC 210.21 regulations.
- When operating the device at -20°C, the output current is limited to 12.5 A.

Standalone configuration

In this configuration, only output ports are connected. The primary activity of the device is to power the appliances connected to its AC and DC output ports from the device's battery.

Simultaneous Charge-Discharge configuration

In this configuration, both input and output ports are connected. The device powers all connected appliances and diverts the remaining power from the input source to charge its battery.



Things to remember:

- If IQ PowerPack 1500 is being charged and SoC <5% then AC loads cannot be run till the SoC ≥6%. However, DC loads can run at any SoC between 0 and 100%.
- While charging the device from 0%, the discharging through DC ports will only start after ≥3% SoC

Instant switchover and seamless transition

Instant switchover with seamless transition is available in the grid passthrough configuration. If the AC input source is disconnected, the device will transition to a 'Standalone configuration' seamlessly in less than 10 milliseconds. Most electronic devices would continue to operate during the transition without interruption.

Power flow from source to load

The device adheres to the following power flow rules:

Sources:

- Charging from an AC input source supersedes all other sources i.e., when the IQ PowerPack 1500 is charging through the wall socket, power will not be drawn from a DC Solar or DC 12 V input source.

Exception:

- When the device is connected to a DC 12 V input source and is simultaneously powering an appliance from the DC 12 V output port, the DC appliance is powered only by the DC 12 V input source.
- When the AC Grid input source is not connected, DC 12 V and DC Solar inputs can draw power simultaneously if both are connected to their respective power sources.

Connected appliances:

- Connected appliances are prioritized to receive power over charging the battery, i.e. the power from charging sources will be first used to meet the power demand of the connected appliances, and only the excess power available is used to charge the battery.



Things to remember:

- When the IQ PowerPack is charging from a DC 12 V input source and powering a device from the DC 12 V output at the same time, both ports share the same supply. This setup is called bypass mode.
- In bypass mode, the output voltage depends on the external 12 V source, such as a vehicle socket, and brief voltage dips can occur.
- Some 12 V devices with low-voltage protection, such as portable fridges, may turn off if the voltage drops.
- To reduce this, lower the DC 12 V input charging limit in the Enphase App or on the LCD touchscreen under Menu → Settings → Advanced Settings → DC 12 V Input charging. Reducing the charging current helps limit voltage dips when charging and powering devices at the same time.
- If your device allows selecting a lower battery-protection level, choosing that option can help prevent unnecessary shut-offs.
- Always use the original Enphase DC 12 V Charging Cable for the best performance.

6

How to use – IQ Portable Panel

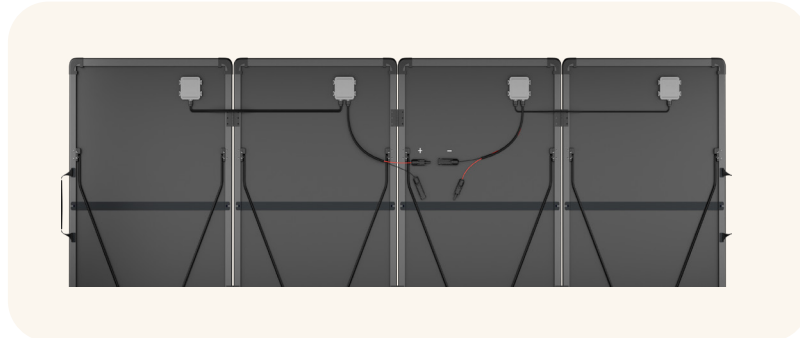
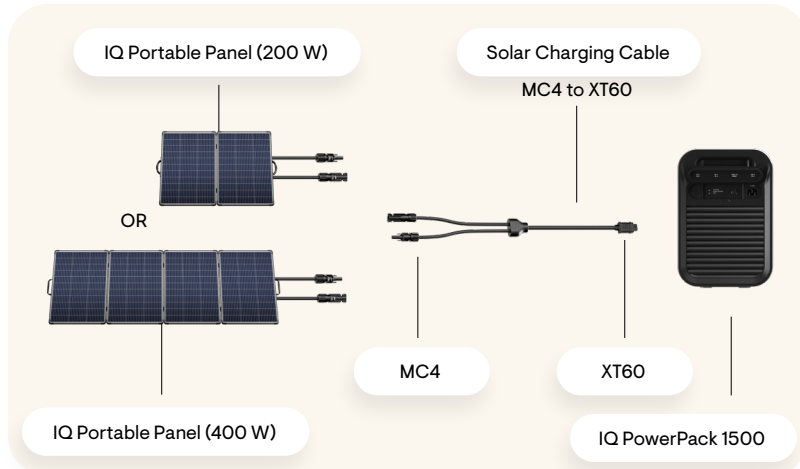


6.1 Charge from IQ Portable Panel

IQ Portable Panels are recommended add-ons when an IQ PowerPack 1500 is purchased through the [Enphase website](#).

To charge the device with IQ Portable Panel, only use the Solar Charging Cable included with the IQ Portable Panel package.

Follow the steps below to connect and charge:



- 1 Connect the MC4 connectors on the panel with the two MC4 connectors on the Solar Charging Cable—the male port to the female port, and vice versa.
- 2 Connect the XT60 connector on the Solar Charging Cable to the DC Solar input port of the device.
- 3 For the 400W panel, connect the positive (+) and negative (-) connectors from each panel as shown in the diagram above to complete the series connection. Disconnect them before folding and packing the panel, and reconnect the same way when reinstalling.
- 4 Once the solar panel has been successfully connected to the device, the solar icon on the device's LCD touchscreen and in the Enphase App will show an increase in power value. The icon's status will change from 'Disconnected' to 'Producing'.

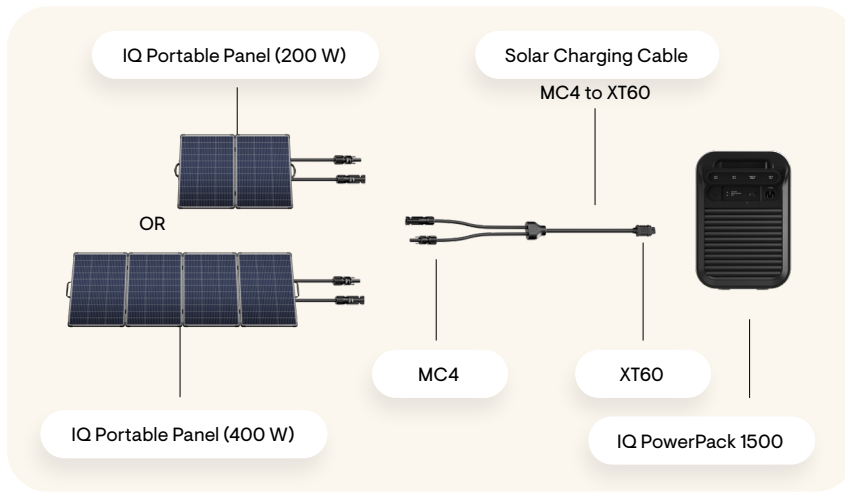
NOTE: When the device is connected to both Solar and the AC grid, it prioritizes charging from Solar and automatically draws additional power from the AC grid as needed. If Solar is not available, the device charges fully from the AC grid.



Things to remember:

- Do not touch the metal pins of the rear panel port on the device with bare fingers.
- The power generated by the solar panels is dependent on many factors including operating conditions, amount of solar irradiance, presence of obstruction in the path of light, amount of shade or debris on the panel surface, surrounding temperature and panel orientation, etc.
- The maximum power on the label represents performance in ideal conditions.
- Do not use any unauthorized solar panels or accessories. Unauthorized solar panels may have higher operating voltage or current. Using one or more such solar panels could exceed the product specifications and in turn damage the device. This will void the warranty.
- If a longer cable is used to charge than what is provided by Enphase, then such a cable may reduce the device's ability to charge or may not even charge at all.

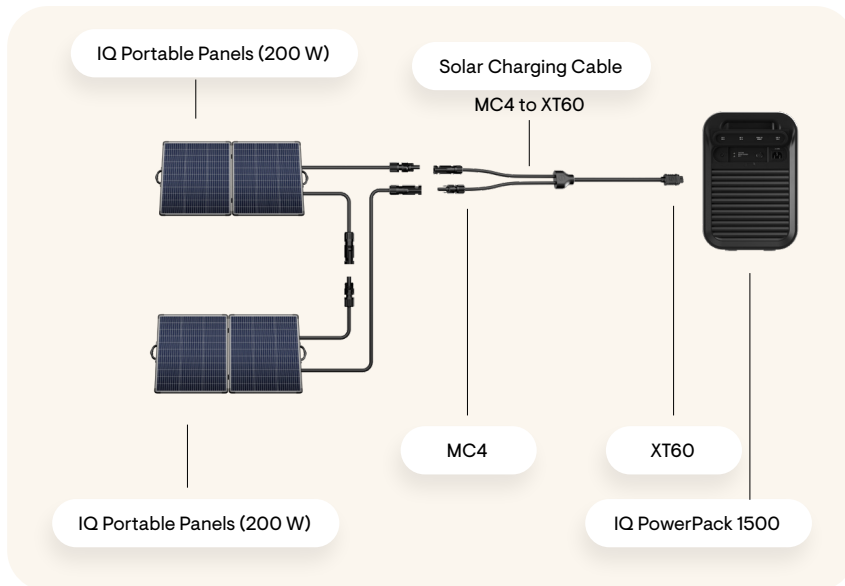
6.2 IQ Portable Panel configuration options



1

Single solar panel connection:

Charge the IQ PowerPack 1500 using a 200 W or a 400 W IQ Portable Panel. To connect the device with a single panel, follow the steps mentioned in the [Charge from IQ Portable Panel](#) section above.



2

Two solar panels connected in a series:

To charge the IQ PowerPack 1500 using multiple solar panels, connect up to two 200 W IQ Portable Panels in series. Adhere to the connection connection setup depicted in the image, and proceed with the steps outlined below:

- Connect the solar panels – connect the male MC4 port of one panel to the female MC4 port of the other panel.
- Connect the remaining male and female ports of both panels to the MC4 connectors of the Solar Charging Cable.
- Connect the XT60 port of the Solar Charging Cable to the DC Solar input port of the device.



To connect a single or two solar panels, adhere to the electrical limits of the DC Solar Input port:

- Operating MPP voltage (V_{mp}): 12–50 V
- Maximum open circuit voltage (V_{oc}): 60 V
- Maximum MPP current (I_{mp}): 10 A
- Maximum short circuit current (I_{sc}): 12 A
- Maximum MPP power (P_{mp}): 440 W



Things to remember:

- IQ Portable Panels should be connected in series as depicted. Connecting panels in series significantly increases the charging speed and power.
- Parallel connection is not recommended as it may lead to underperformance and damage.
- Damage resulting from the usage of unauthorized panels is the user's liability and will void the warranty.
- For two-panel setup, use only 200 W IQ Portable Panels connected in series, following the recommended configuration.

6.3 Getting the most out of the solar panels

Maximize the solar panel output

- Ensure that the solar panel is facing direct sunlight. Ideally oriented toward the south, west, or southwest depending on the time of day.
- When in use, keep the surface of the solar panel clean.
- Ensure that the solar panel is not obstructed or shaded.
- Keep the surrounding area of the solar panel well-ventilated.

Keep the solar panel clean

- Before cleaning or maintenance, disconnect the solar panel from the device.
- Clean the solar panel frequently with water. Wipe the surface with a damp cloth.

Handle your solar panel safely

- Avoid loose or partial connections.
- To disconnect the solar panel from the device, use the Solar Panel Disconnect Tool provided in the IQ Portable Panel package.
- Do not attempt to disassemble or repair the solar panels. There are no user-serviceable parts.
- Secure panels with stakes in windy conditions to prevent movement or damage. In severe weather, stow panels safely to avoid damage.

Understand the effect of operating conditions on solar panel performance

- Each solar panel's rated power stated in the data sheet is measured under globally accepted Standard Test Conditions (STC).
- Every solar panel typically produces less than its rated power because real-world conditions (clouds, rain, snow, temperature, solar irradiance, etc.) differ from lab-controlled test conditions.
- A solar panel's real-world power output depends on several factors including the amount of solar irradiance, the amount of shade or debris on the panel surface, surrounding temperature, and panel orientation.

Avoid shading on the solar panel

- The IQ Portable Panel has three sections (folds), each made up of multiple cells wired in series.
- If any cell in a section is shaded, that entire section stops producing power. The panel's bypass keeps it operating, but you lose roughly one-third of the total output for each shaded section. Shading all three sections stops solar charging completely.
- When a sudden drop in power occurs due to shading, the IQ PowerPack may pause charging for few seconds while the solar controller adjusts. Charging resumes automatically once sunlight is restored.
- For best performance, keep all three sections in direct sunlight and avoid shadows from trees, leaves, branches, vehicles, or nearby objects. Reposition the panel as needed during the day.

Monitor and adjust the solar panel setup

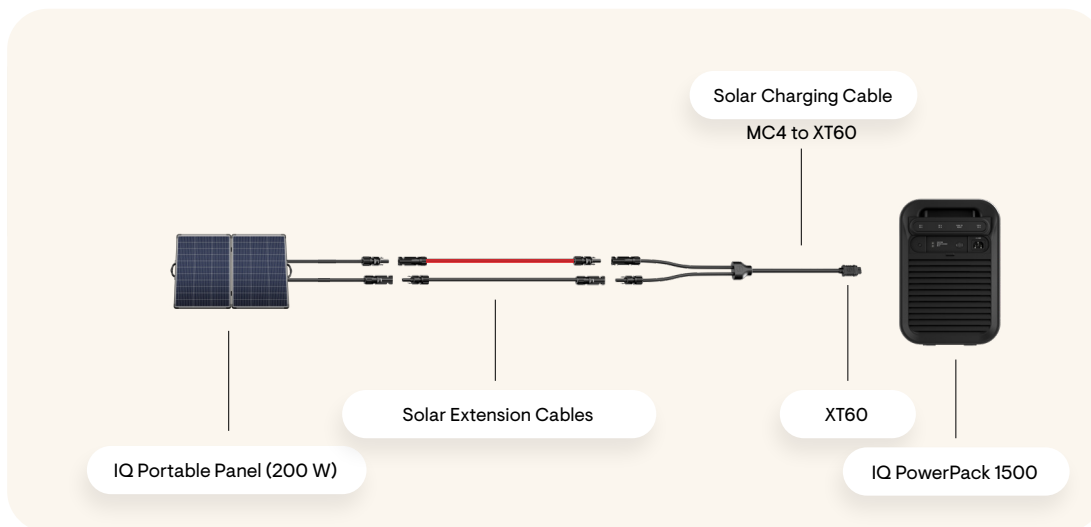
- View the DC solar input on the LCD touchscreen or the Enphase App.
- Adjust the solar panel setup and check if the DC solar input is increasing or decreasing.
- Fix the solar panel setup to maximize DC solar input to the device.

6.4 Solar Extension Cables

The distance between the solar panel and the device can be increased with Solar Extension Cables. These cables come in two lengths: 16.4 ft (5.0 m) and 32.8 ft (10.0 m). They are available for purchase through the [Enphase Store](#).

The standard Solar Charging Cable as part of the IQ Portable Panel package has a length of 6.6 ft (2.0 m).

To connect Solar Extension Cables, adhere to the connection setup depicted in the image.



- 1 First, connect the solar panel to the extension cables – connect the male MC4 port of the solar panel to the female MC4 port on the extension cable and then connect the remaining male and female ports.
- 2 Then, connect the other end of the extension cables to the Solar Charging Cable by connecting respective male and female MC4 ports.
- 3 Finally, connect the XT60 port of the Solar Charging Cable to the DC Solar input port of the device.

6.5 Disconnect the IQ Portable Panel

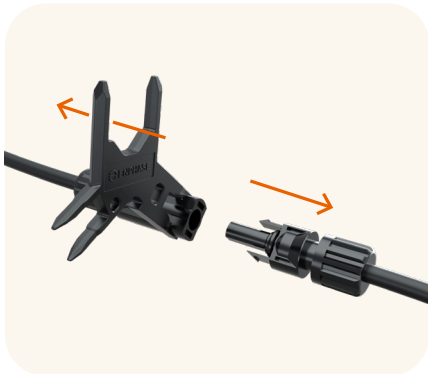
When you've finished charging the device, use the Solar Cable Disconnect Tool to disconnect the solar panel from the Solar Charging Cable.



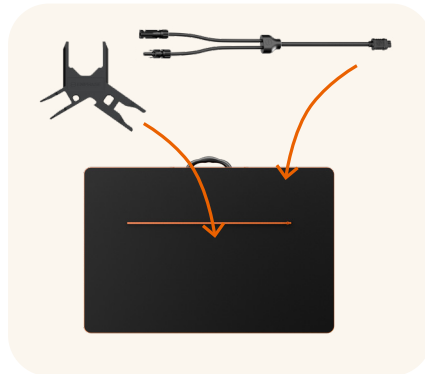
- 1 Carefully remove the XT60 connector on the Solar Charging Cable from the DC Solar input port on the back of the device.



- 2 Slide the two prongs of the Solar Cable Disconnect Tool over the interlocking clips that hold the male and female MC4 connectors together.



- 3 With the two prongs of the Solar Cable Disconnect Tool in place, pull with medium force to disengage the male and female MC4 connectors.



- 4 The Solar Charging Cable and the Solar Cable Disconnect Tool can be stored in the pouch on the Solar Panel Bag.

! Things to remember:

Do not use long extension cables—such cables will increase power losses. If the length of the extension cables available in [Enphase Store](#) is inadequate and a longer cable is required, use cables of at least 12 AWG or 10 AWG and ensure that they have been designed for solar PV applications.

7

How to use - IQ Cart



7.1 Using the IQ Cart

The IQ Cart is a foldable trolley that can be used to hold and move the IQ PowerPack 1500.

The IQ PowerPack 1500 can be locked on to the cart firmly to prevent accidental toppling while the device is being moved. When it's placed on the cart, all input and output ports on the device are fully accessible for use.

The wheels of the cart can be locked to prevent the cart from inadvertently moving when not being attended. The cart also has a rear pouch to hold the Cable Case, which is included with the IQ PowerPack 1500.

When not in use, the cart can be folded to minimize the space it occupies and can easily fit into a vehicle trunk or under the bed.



Things to remember:

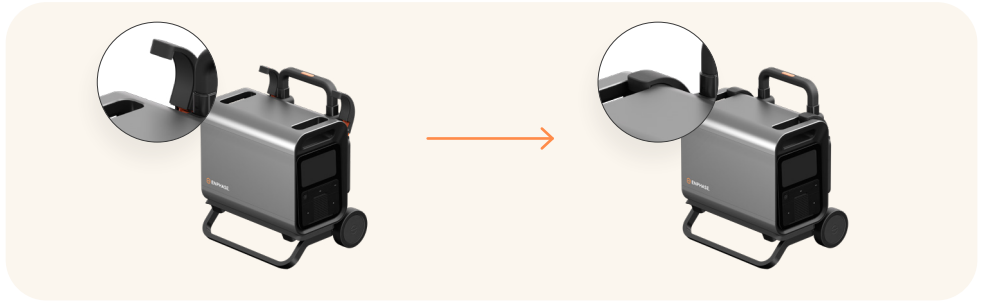
Do not leave the device on the cart when stowed in an automobile trunk. This may result in the device flipping over during the drive and be a safety risk to passengers, the automobile, or the device itself. Ensure the cart is separated from the device, and both are properly stowed during the drive.

7.2 Setup and use the IQ Cart

Place the device on the cart and lock



- 1 Carefully place the device on the cart by aligning it to the base of the cart.



- 2 After placing the device on the cart, push the latches down to secure the device.

Move the cart around



- 1 Press the button on the top of the telescopic handle to extend.



- 2 Disengage the wheel brakes.



- 3 Use the telescopic handle to roll the cart.

Unlatch and remove the device



- 1 Engage the wheel brakes by pushing them down.



- 2 Stow the telescopic handle by pressing the handle button and pushing it down.



- 3 Push the latch button up to unlatch the device.



- 4 Carefully lift the device off the cart.

Fold the cart and store



- 1 Pull the base latch at the bottom rear of the cart and fold the upper frame forward.



- 2 After the cart is folded, attach the latches to the base of the cart and store the cart in a safe place.

7.3 Store the Cable Case in the IQ Cart



1

To make sure you have the necessary charging cables with you, the cart's rear pouch can be used to hold the Cable Case that comes with the IQ PowerPack 1500.



Things to remember:

- Do not overload the cart beyond its maximum load-carrying capacity of 308.6 lb (140.0 kg), including the device's weight.
- Do not use the cart for any other purposes other than carrying the device.
- Do not use the rear pouch for any other purpose other than for storing the Cable Case.
- Excessive use over rough surfaces may reduce the lifespan of the cart's wheels.
- Keep the handles closed when unused to avoid tip-overs.
- Do not drop the cart with or without the device. Doing so can damage the cart or make it inoperable.

8

Key use cases



8.1 Backup power during a power outage

The IQ PowerPack 1500 can back up your essential appliances during a power outage at your home or office. The 11 power output ports on the device provide ample options to simultaneously power most of your appliances.

To conserve battery power when using only DC output ports, enable the **Power Save** profile to turn off the 4 AC output ports.

Use the Enphase App to monitor and control the device remotely. If the battery runs low or other preset events occur, you will receive an alert through the Enphase App.

The device has been designed to meet the safety standards for indoor and outdoor use. The built-in Lithium Iron Phosphate battery is tested to UL 9540A standard, and the device is certified to UL 2743 to meet the requirement of electrical and mechanical safety.



8.2 Instant switchover

The IQ PowerPack 1500 can automatically switch from grid power to its internal battery backup in case of a power outage.

When the IQ PowerPack 1500 is connected to the wall socket, any load plugged into the device's output ports will be powered from the AC grid rather than drawing from the device's battery. In case of a power outage, the device automatically switches to its battery mode within 10 milliseconds to keep essential appliances running.

When the grid power comes back, the IQ PowerPack 1500 automatically reverts to AC grid power and stops drawing power from the internal battery.



Things to remember:

Check if the appliance meets the 10 millisecond power switching requirement before using the IQ PowerPack 1500. Do not use the IQ PowerPack 1500 for medical emergency or life-support devices, for example ventilators, dialysis machines, etc. The IQ PowerPack 1500 is not designed to switch power sources with zero delay.



8.3 Power for outdoor use

The IQ PowerPack 1500 is certified for temporary outdoor use and can be used safely and reliably for general-purpose outdoor applications (e.g., parks, beaches, campgrounds, etc.). Using the device outdoors within the specified environmental limits does not impact the device's life or its performance.

The device is designed to withstand light rain for up to one hour. If the product is exposed to heavy rain, move it to a covered space and allow the device to fully dry before use. Do not submerge the device in water. The device must not be immersed in water levels exceeding 0.5 in.

Using the device outdoors exposes it to a variety of environmental conditions. Normal exposure to direct sun rays, light rain for a short duration, and saltwater sprinkles in marine environments for a short duration are acceptable.

Exposure to dust storms, severe debris, heavy snow, hailstorms, and flooding is not recommended. They can damage the device and void the warranty.

Using the device in hot or cold conditions (but within operating temperature limits) may increase the device's fan noise and charging time. Always use and store the device within the specified temperature range to ensure safe and reliable operation.

The protection covers for the input and output ports are designed to prevent water ingress into the ports. Do not remove them from the device and do not use the device outdoors without them.



Things to remember:

- This device is intended to be stored indoors when not in use. Do not store or leave the device outdoors when not in use.
- Do not leave the device unattended when charging it from an AC source outdoors.
- Take sufficient care when operating appliances in the rain to avoid the risk of electric shock.
- If the device is left unattended outdoors, taken precautions to reduce exposure to rain, sleet, snow and the like.



9

LCD touchscreen



9.1 Home screen

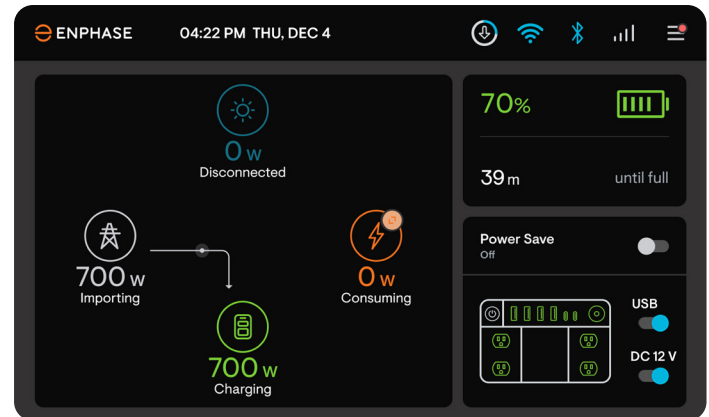
The home screen displays the live status of the IQ PowerPack 1500 and provides real-time information on power production, power consumption, battery charge, and connectivity status to the user.

The left side of the screen displays the power input and power consumption summary. Tap the **Consuming** icon to see detailed power consumption of AC and DC loads separately.

The right side of the screen displays various device statuses:

- Notification bell icon
- System update download status
- Wi-Fi connection status
- Bluetooth connection status
- Cellular network status
- Menu tab
- Battery state of charge (SoC) in percentage (%)
- Backup time remaining/charge time to full
- **Power Save** On/Off

Tap the **Power Save** toggle button to enable/disable the **Power Save** profile of the device. When **Power Save** is enabled, the AC output ports are turned off to reduce the draining of the battery. When **Power Save** is disabled, the device switches to the **Power On** profile, and all AC output ports are back on.



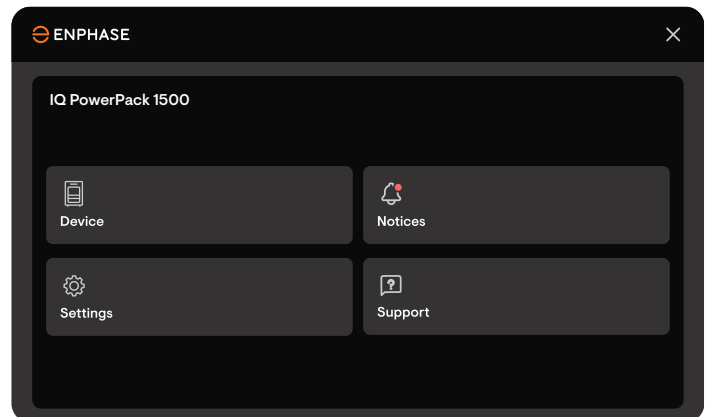
9.2 Menu screen

You can access the **Menu** screen by clicking the  icon on the top right corner of the home screen.

The **Menu** screen provides options to view and modify device settings:

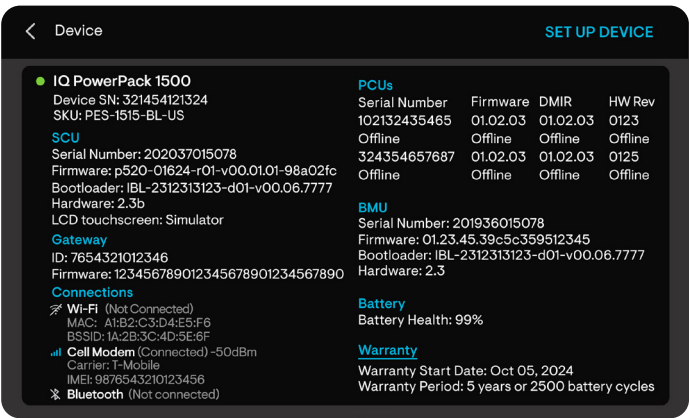
- The **Device** page provides information related to the device.
- The **Settings** page includes information about the device's settings and advanced settings.
- The **Notices** section lists all the events/warnings/errors that the device has encountered during its operation.

- The **Support** page provides contact information for Enphase Support.



9.2.1 Device page

This section summarizes device details including **Serial Number**, **SKU**, **Site ID**, **App Version**, and the status of the system. Sub-component details including **Firmware version**, **Hardware – Serial number, version**, **Wi-Fi**, **Cell Modem**, and **Bluetooth** connection status. You may be required to provide device information from this section should you ever contact Enphase Support representatives for technical support.



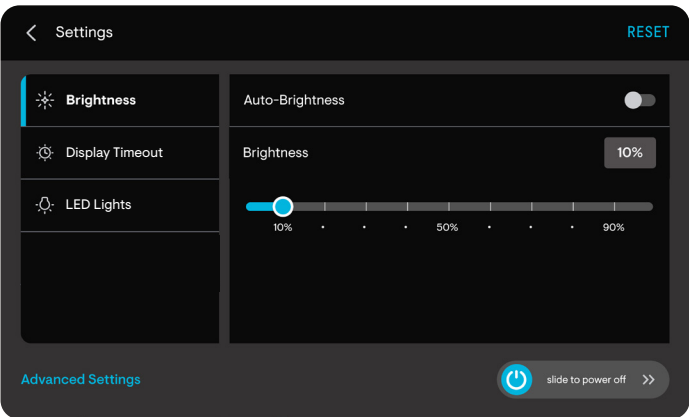
9.2.2 Settings page

In the **Settings** page, you can customize the IQ PowerPack 1500's LCD touchscreen by changing the brightness (**Auto** and **Custom** settings), and the Display timeout.

Tap **Advanced Settings** to modify the idle time duration after which the device should automatically transition from **Power On** to **Power Save** or from **Power Save** to **Power Off**. Fast charging can also be enabled or disabled in this section.

In this section, you can also modify the input current limit for the AC Grid input port and the DC 12 V input port.

To initiate a master reset or limited reset (Wi-Fi and device settings), press the **RESET** button on the top-right corner of the **Settings** page.



10

Enphase App



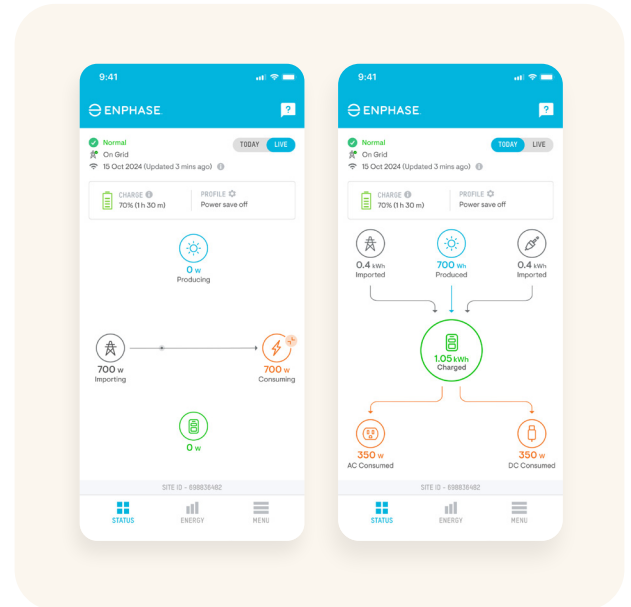
10.1 Using the Enphase App



The Enphase App can be downloaded from the Google Play Store (for Android users) or the Apple Store (for iOS users).

You can monitor and control your device with the Enphase App by ensuring that your mobile phone and the device have an internet connection.

In the absence of an internet connection, you can monitor and control the device from the Enphase App with a Bluetooth connection.



10.2 Status page

The **Status** page displays the system status, instantaneous power flow between power sources and appliances, battery state of charge (SoC%), and time remaining for charging and discharging.

The upper half of the screen displays various system status:

- Device status (status: normal, error)
- Bluetooth status
- Wi-Fi status
- Cellular status
- Battery State of Charge (in %)
- Time remaining

The middle of the app screen displays the power input and power consumption summary.

Toggle between **Live Status** and **Today's Status** to view power usage summary by live power input and consumption (measured in Watts (W)), or aggregate energy use (measured in Watt-hour (Wh)).

Live Status displays the power being drawn in real-time. To see this data, the device must be connected via Wi-Fi, or Bluetooth, or cellular network.

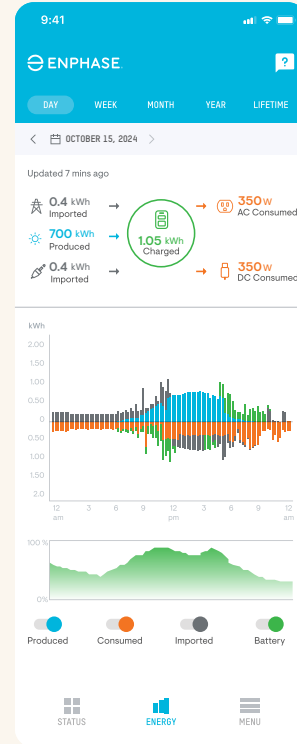
Today's Status displays the aggregated energy usage during that day. This data is updated based on when the device was last connected to the internet via Wi-Fi or cellular network.

10.3 Energy page

The **Energy** page displays the total energy consumed (measured in Watt-hour (Wh)) over time.

Users can select the time duration by Day, Week, Month, Year, or Lifetime.

Users can visualize their energy consumption pattern by toggling On/Off various power inputs and outputs.

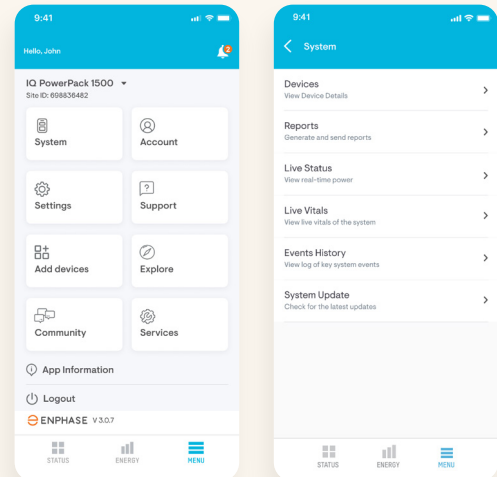


10.4 Menu page

Use the **Menu** page to view and modify device settings, add a new device, or learn about Enphase offerings and services.

10.4.1 System

This page provides device-related details. **Devices** provides device identifiers. **Live vitals** and **Event History** provide operational details of the device. **System Update** provides information on newly available updates. Some updates may be critical and mandatory.



10.4.1.1 Devices page

This page lists device details like **Serial Number**, **SKU Number**, **Site ID**, **Firmware version**, **Hardware details**, **Wi-Fi**, **Cell Modem**, and **Bluetooth** connection status.

This page also displays other IQ PowerPack 1500 associated with the same Enphase Account.

Access another IQ PowerPack 1500 from the Enphase App

This section allows users to access another IQ PowerPack 1500 in the Enphase App if it has been registered to the same Enphase Account.

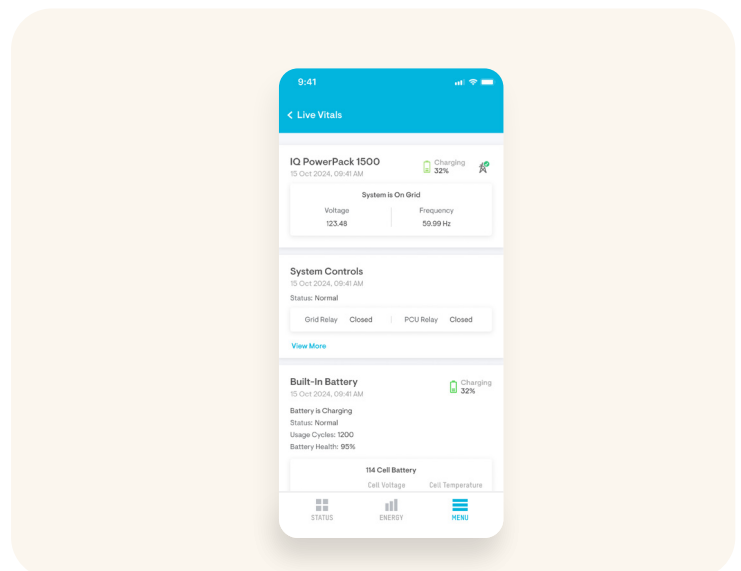
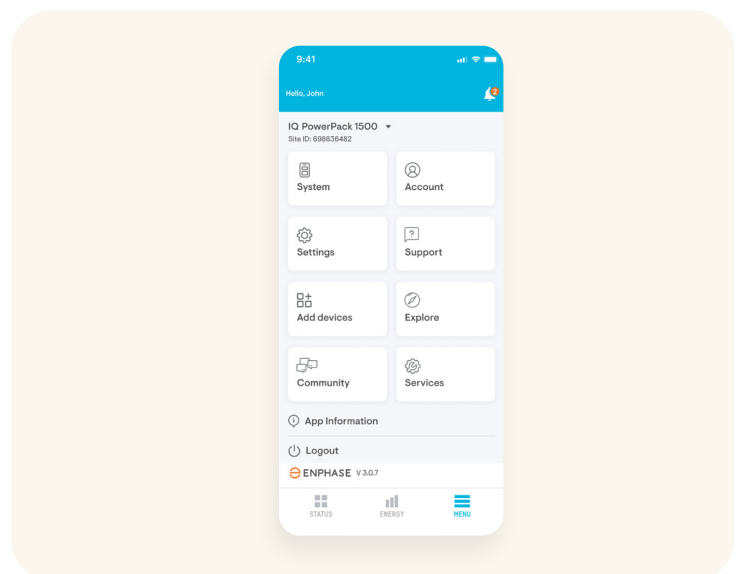
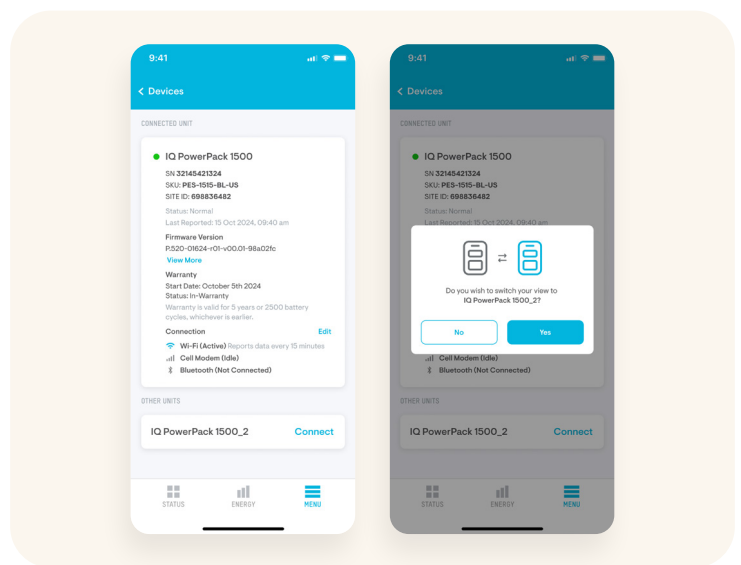
- Tap **Menu** and select **System**.
- Tap **Devices**.
- At the bottom of the page, you can find the devices that have already been added to the same Enphase Account.
- Tap the device you wish to connect to.

Access another Enphase device from the Enphase App

To access other Enphase devices already installed (e.g.: IQ Microinverter, IQ Battery, IQ EV Charger, etc.) tap the drop-down on top of the **Menu** page.

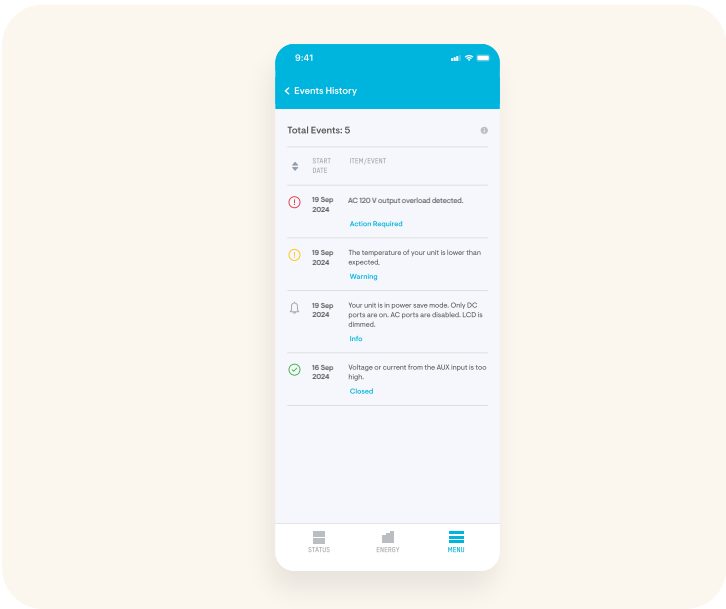
10.4.1.2 Live Vitals page

This page provides all details about the device's internal components including microinverters, battery, input and output ports, and internal relays. Use this page to understand the health of the system.



10.4.1.3 Event History page

This page provides details about various events that occur during the device operation.



10.4.2 Settings page

This page allows the user to modify the device and app settings.

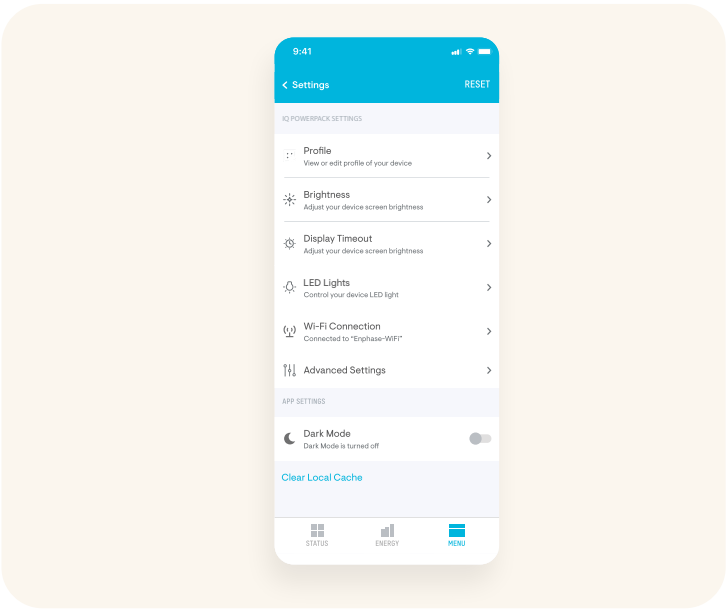
Use the **Settings** page to modify the device profile (**Power On**, **Power Off**, **Power Save**), the LCD touchscreen brightness settings, LED lights settings, Wi-Fi settings, and advanced settings.

The **Advanced Settings** page allows the user to modify the idle time duration after which the device should automatically transition from **Power On** to **Power Save** or from **Power Save** to **Power Off**.

10.4.3 Account page

Use the **Account** page to view and modify your account-related details:

- Personal information associated with an account (name, phone, email, units, language, device name)
- Notification preferences
- Access control



10.4.3.1 Access control

The app can be accessed by two types of users:

1. Primary users: Owners of devices who can-

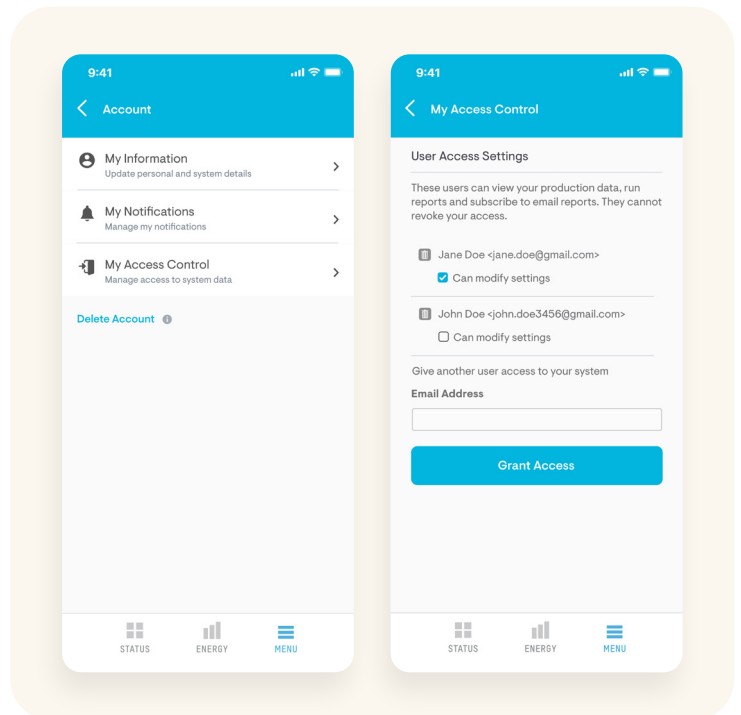
- Register the device
- Provide device access to secondary users

2. Secondary users: owner-assigned users who can-

- View the device data
- Modify settings (if allowed by the primary user), but
- Cannot revoke or modify access of the primary users

Primary users can provide device access to their friends and family. To share access, you can follow the below steps:

- Tap **Menu** and select **Account**.
- Tap **My Access Control**.
- To provide access to another user, add the user's email address in the **Email Address** field and then tap **Grant Access**.
- To remove an existing user, tap the **Delete** button.
- To update the access level of an existing user, check or uncheck the **Can modify settings** field.



10.4.4 Other sections on the Menu page

The **Menu** page contains a few additional sections:

- **Add devices** is used to add new IQ PowerPack 1500.
- **Support** is used to find the best option to access Enphase Support.
- **Explore, Community, Services, and Refer friends** are used to explore and interact with various products and services provided by Enphase.

11

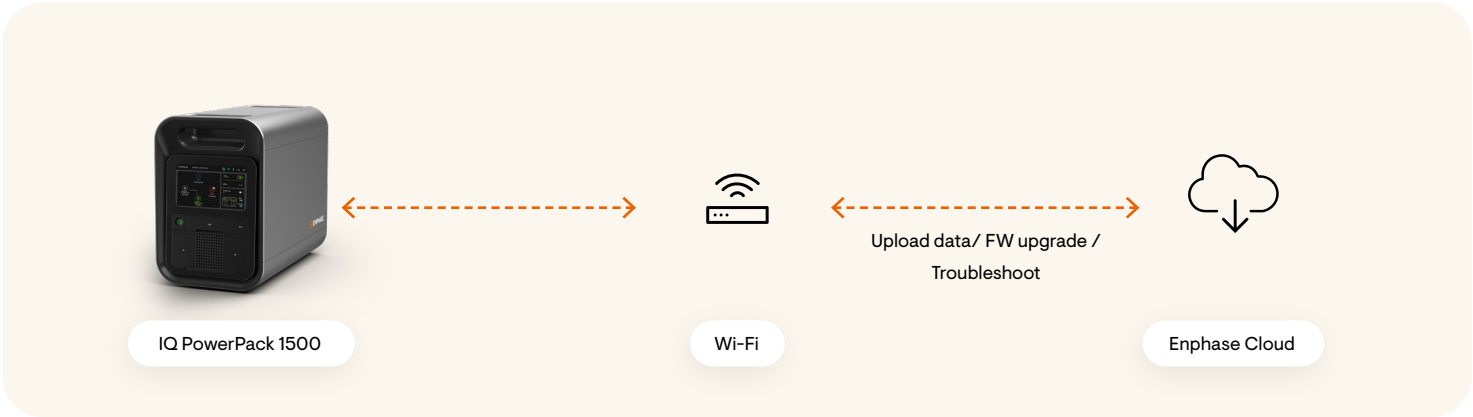
Connectivity and data



11.1 Device connectivity

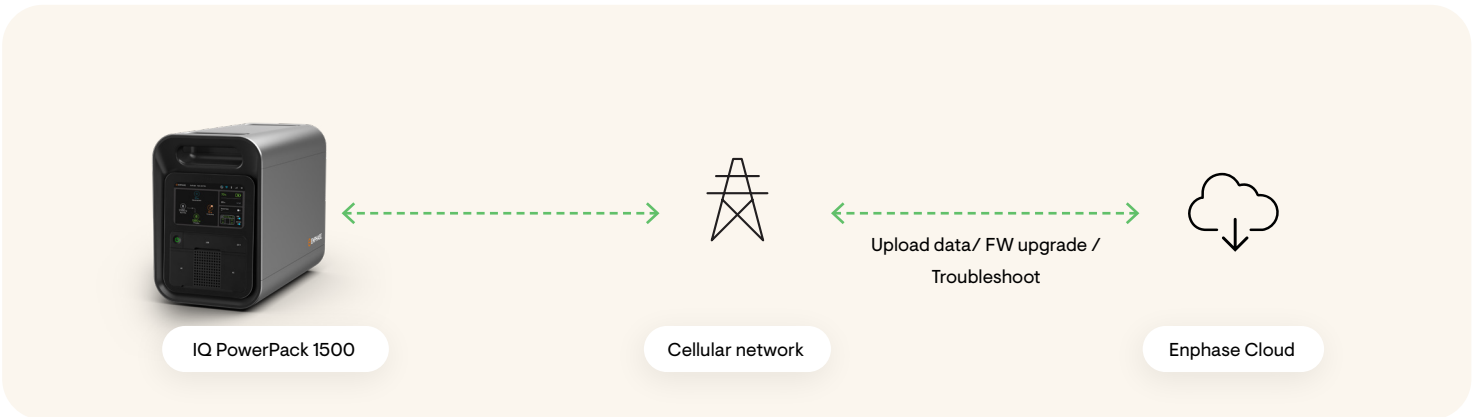
The IQ PowerPack 1500 connects to Enphase Cloud in two ways:

- 1 The device connects to the internet via Wi-Fi.



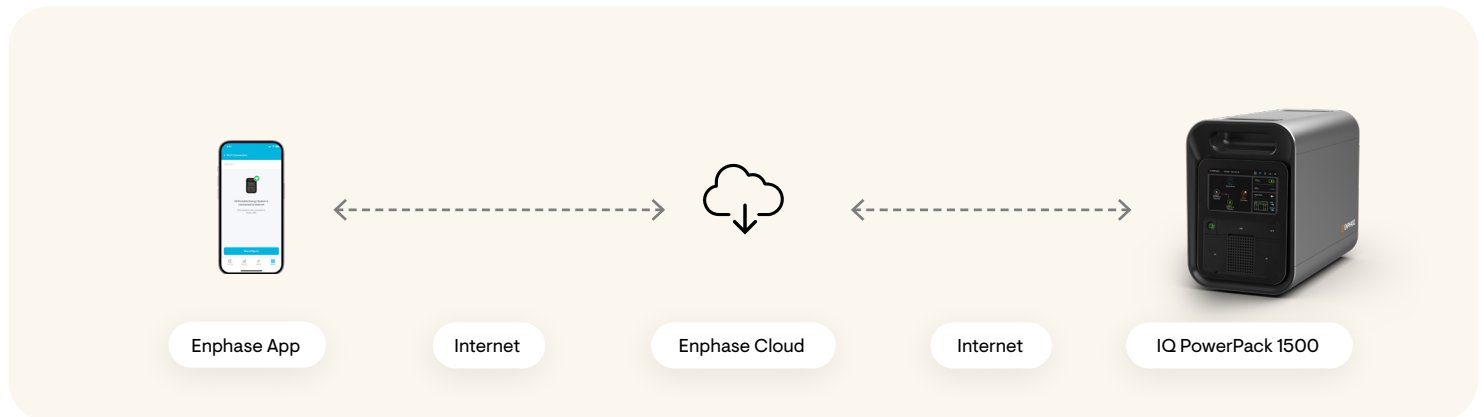
or

- 2 The device connects to the internet via a cellular network (in the absence of Wi-Fi).



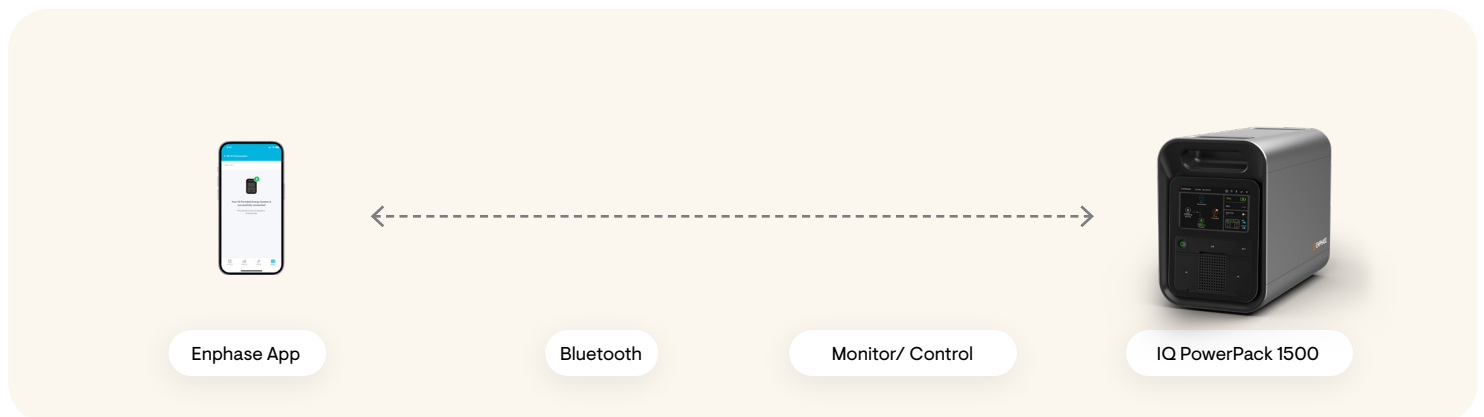
The Enphase App on your mobile phone connects to the IQ PowerPack 1500 in two ways:

- 1 Both the Enphase App and the device are connected to the internet.



or

- 2 Direct connection between the device and the Enphase App through a Bluetooth connection in the absence of the internet.



When the device is connected to the internet, the following two activities are possible:

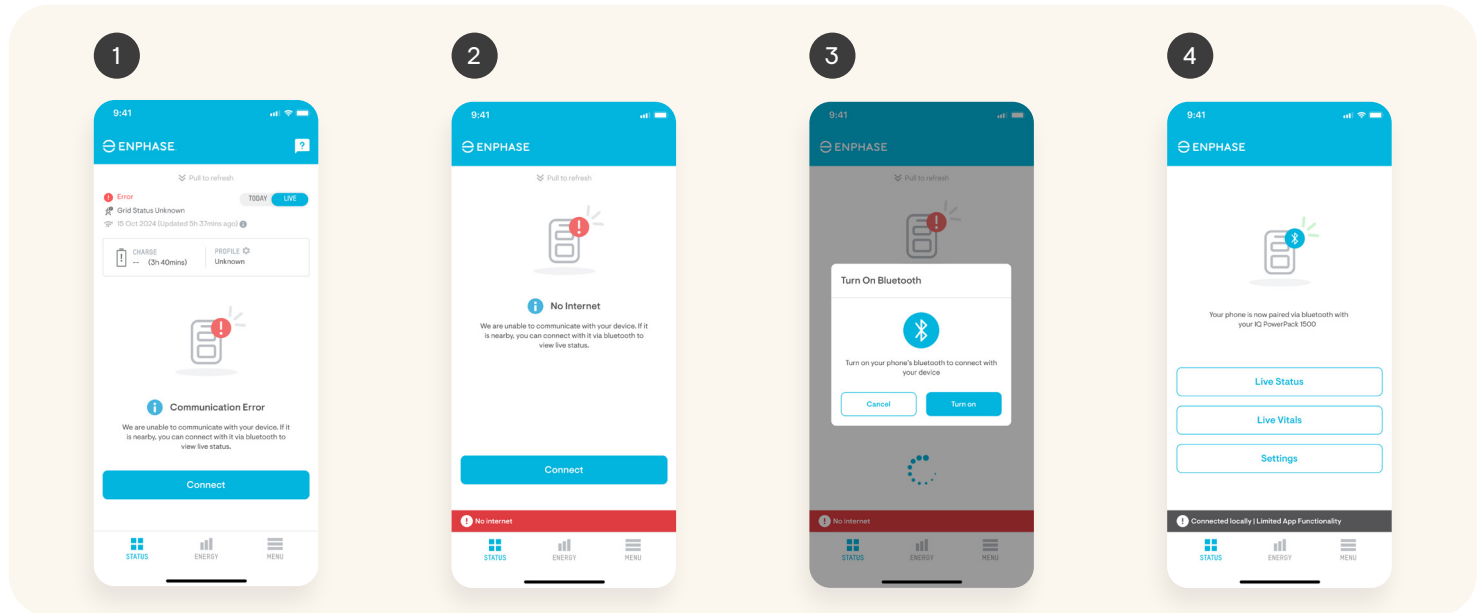
1. Two-way data exchange between Enphase Cloud and the device. The device can send error logs/reports to

the Enphase Cloud and the Enphase Cloud can send OTA (over-the-air) system updates to the device.

2. Users can remotely monitor and control the device via the Enphase App.

11.1.1 Connect to the device through a Bluetooth connection.

- 1 Open the Enphase App. If internet connectivity is not available on the device or the Enphase App, one of the two screen variants will show up, prompting you to connect through Bluetooth.
- 2 Tap the **Connect** button.
- 3 If the mobile phone's Bluetooth is disabled, a prompt will appear to **Turn On Bluetooth**. Follow the prompt to enable Bluetooth.
- 4 The mobile phone automatically pairs with the device, and you will get confirmation of a successful connection.



! Things to remember:

Bluetooth connection is possible only if the mobile phone is within 30 feet of the device.

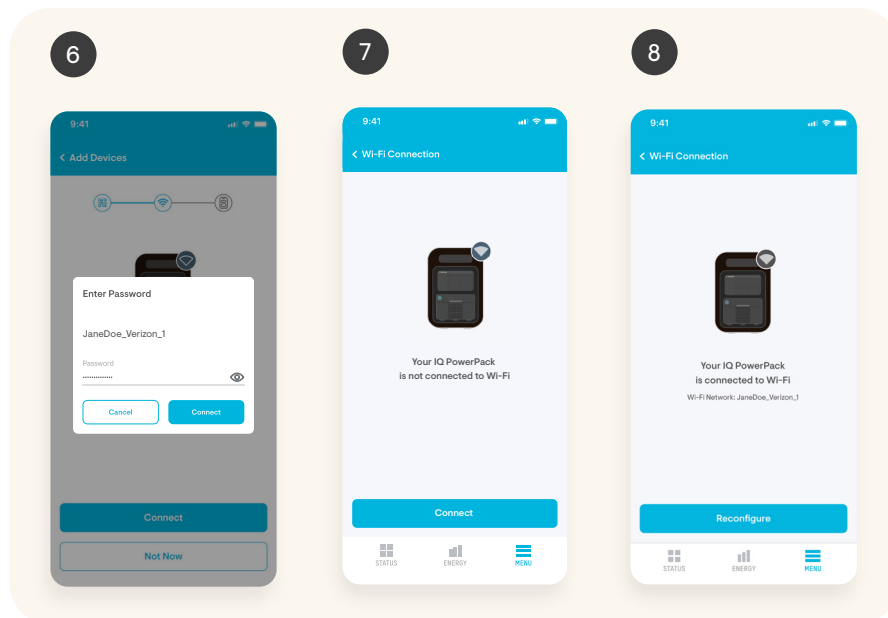
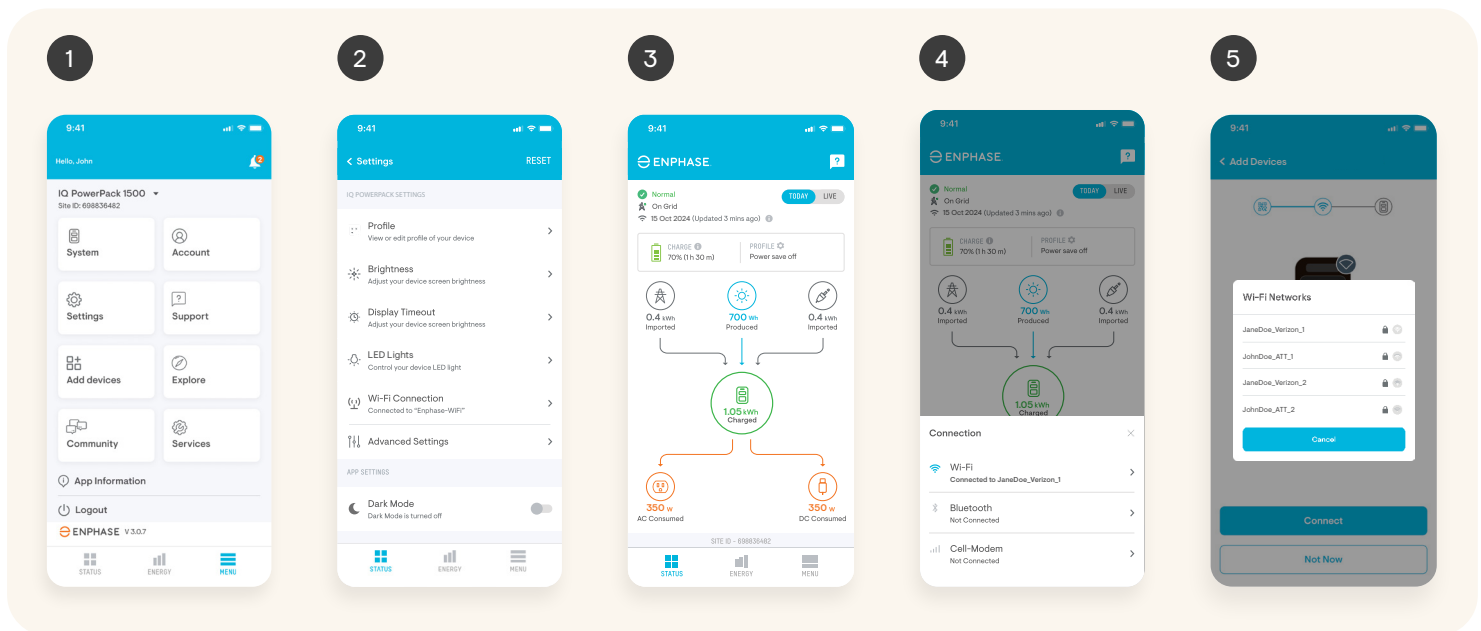
When the device is connected to the Enphase App through Bluetooth, no data is saved on the mobile phone, nor will it be possible to send data to the Enphase Cloud via the phone. Users can locally monitor and control the device through in-app features like- **Live Status**, **Live Vitals**, and **Settings**.

The data provided by the Enphase Cloud in the **Energy** page is not available if the mobile phone is not connected to the internet.

11.1.2 Connect the device to the internet through a Wi-Fi connection

Wi-Fi connectivity can be set up during the product registration process. Refer to the [Steps to set up Wi-Fi](#) section for setting up Wi-Fi.

To set up or reconfigure Wi-Fi at a later stage, follow the below process:



- 1 Tap **Menu** and select **Settings**.
- 2 Tap **Wi-Fi Connection**.
- 3 Or, tap the **i** icon beside the **Date**, on the top half of the **Status** page to open the **Connection** settings.
- 4 Tap **Wi-Fi**.
- 5 Select the network you wish to connect to.
- 6 Enter the **Password**.
- 7 If Wi-Fi is not set up or the set-up is done but not connected, the **Connect** button is displayed on the app.
- 8 If Wi-Fi is connected, the **Reconfigure** button is displayed.

Once the Wi-Fi connection is established, a confirmation is displayed.



Things to remember

If there are multiple known networks close by, the device will pick up the one with the strongest signal, by default.

11.1.3 Connect the device to the internet through cellular network

In the absence of a Wi-Fi connection, the device automatically connects to the internet through the built-in cell modem. However, Wi-Fi is the recommended mode of internet connectivity for a more seamless experience.



Things to remember

Cellular connectivity depends on the network coverage, vicinity of the cellular tower, and the signal strength. Use cellular connectivity only in the absence of Wi-Fi.

11.2 Device data and the Enphase Cloud

Operational data on the device gets automatically uploaded and stored to the Enphase Cloud whenever the device is connected to the internet.



Things to remember

Even when your IQ PowerPack 1500 is powered off, the built-in SyncPulse feature periodically wakes up the device to check battery status and download over-the-air (OTA) updates using minimal energy. This ensures your system stays optimized, updated, and ready for use.

12

Firmware/system update and device reset



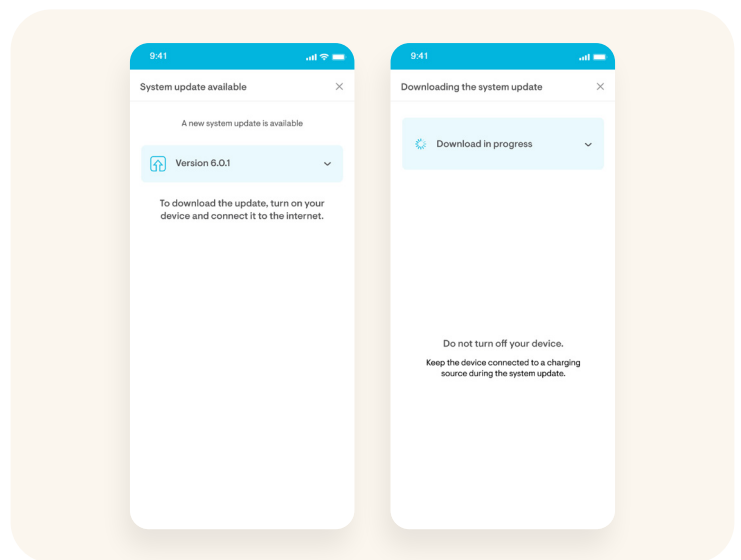
12.1 System updates

New system updates are automatically downloaded from the Enphase Cloud when the device is connected to the internet. Before updating the device, ensure the device is plugged into a power source or the battery is sufficiently charged.

12.2 Downloading system update

If the device is not connected to the internet when a new system update is released and ready to download, a notification is displayed on the Enphase App to remind the users to connect.

Once the download starts, the LCD touchscreen displays a downloading icon on the top section of the home screen.



12.3 Installing system update

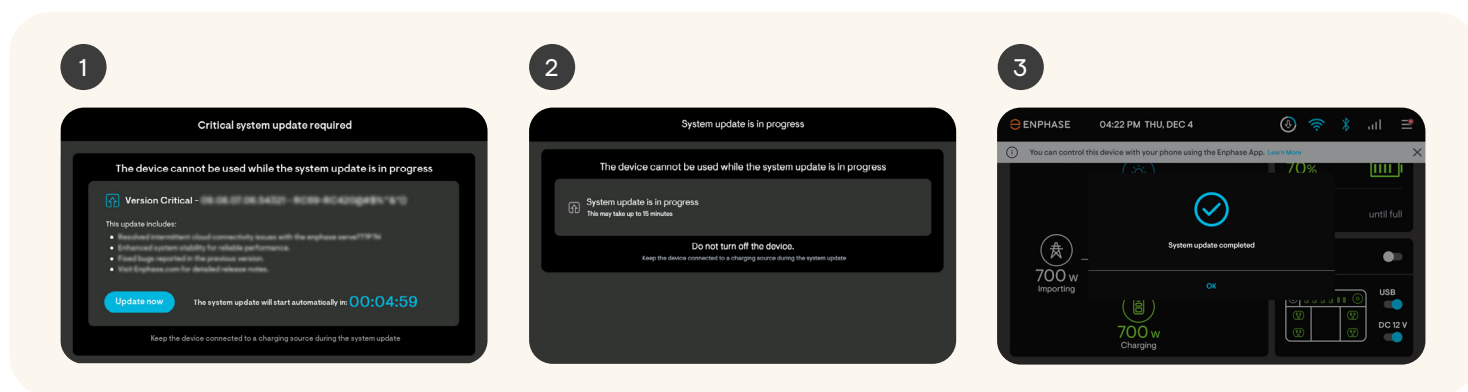
The device may stop operating until the installation is complete.

12.3.1 Critical update

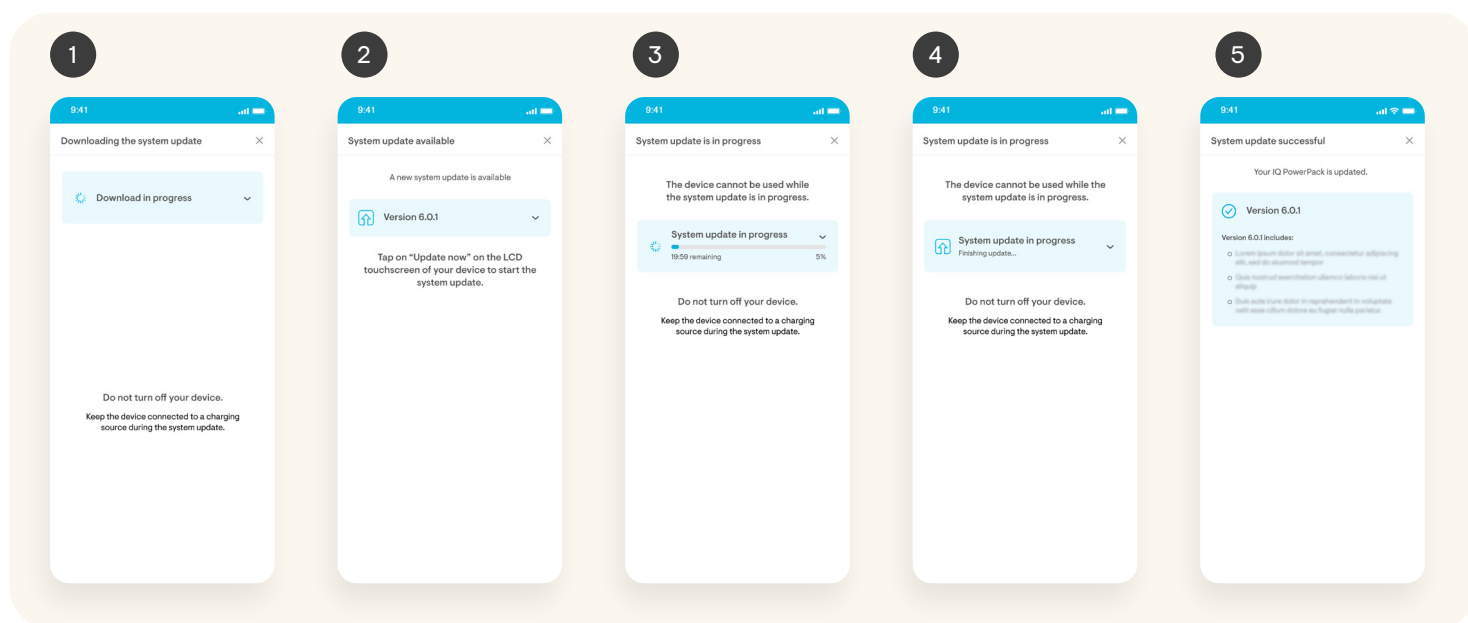
Once the new firmware is downloaded onto the device, a notification will be displayed on the LCD touchscreen of the device and the Enphase App. Installation of a critical update

cannot be delayed, and the installation will start immediately. A timer will count down for five minutes before the installation starts. Tapping **Update now** will skip the timer countdown.

On the LCD touchscreen



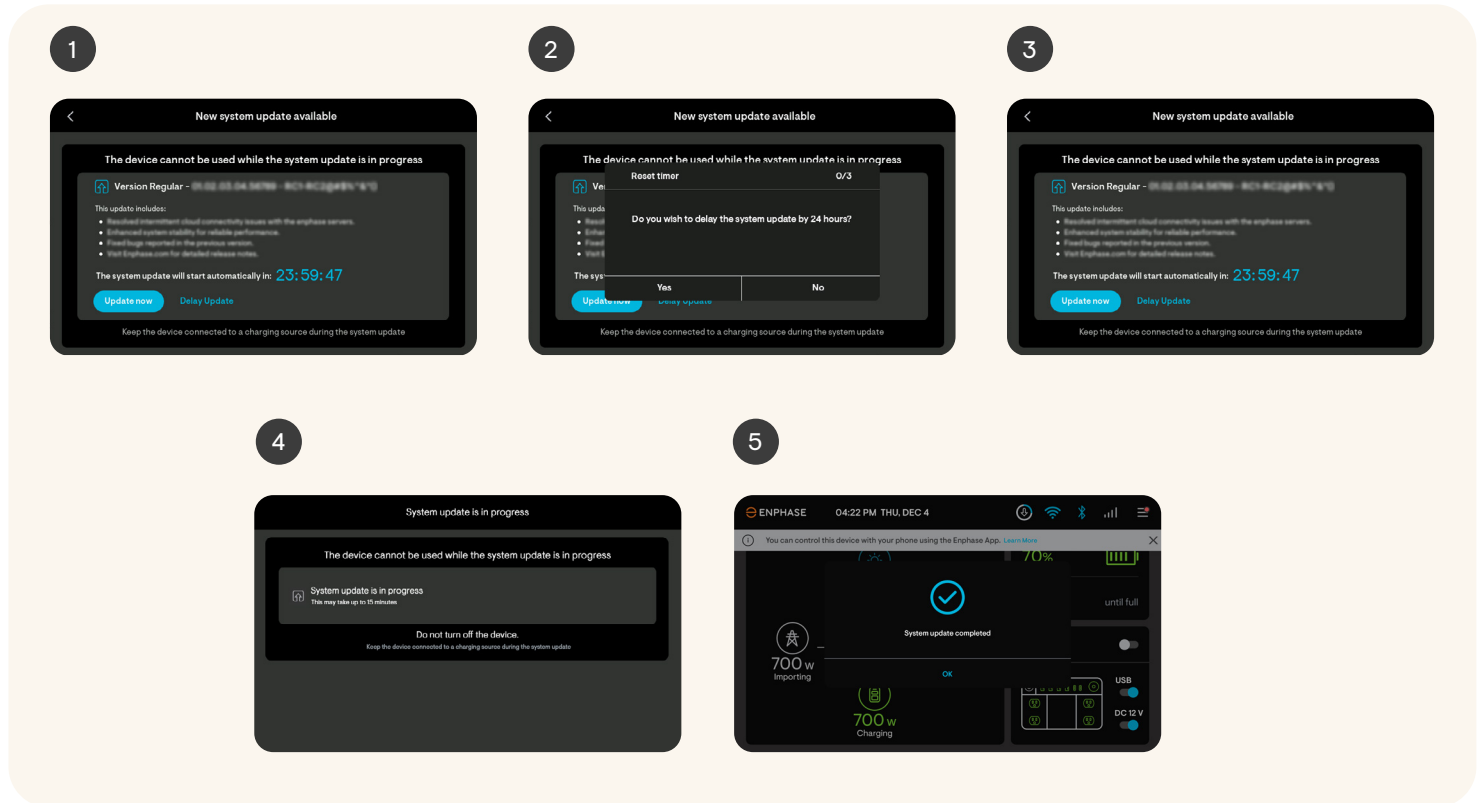
On the Enphase App



12.3.2 Regular update

Once the new firmware is downloaded onto the device, a notification will be displayed on the LCD touchscreen of the device as well as the Enphase App. Installation of regular updates can be delayed using the prompts on the LCD touchscreen.

- By default, if no action is taken, a timer will count down for five minutes before the installation starts.
- Tap **Update now** to skip the timer countdown and start the installation immediately.
- Tap **Reset** to reset the countdown timer by two hours. The timer can be reset three times.



Things to remember:

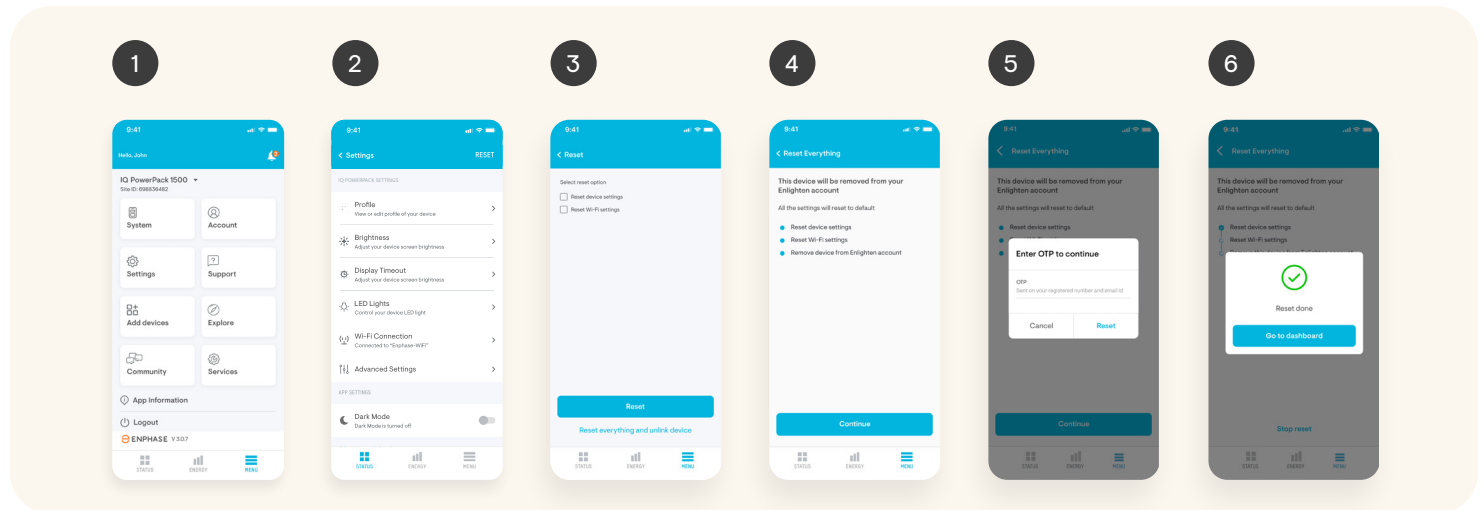
- System updates will download automatically if the device is connected to the internet.
- Do not switch off the device or the Wi-Fi connection if you see the **Downloading** icon on the home screen.
- The device will reboot before the start of the new system update. The LCD touchscreen will be inaccessible at this time.
- If the device is powered off after the system update is downloaded; the update will take place whenever the device is powered on.
- In case the system update fails or gets interrupted, the device will continue to operate without the update and reattempt the installation later.
- The installation of the system update may take up to 15 minutes. Do not power off the device or disconnect the input charging source until the update is completed.

12.4 Reset the device

12.4.1 Master Reset

Use **Master Reset** to restore the device to its factory setting. This might be useful when transferring the device to another person. To start **Master Reset**, use the Enphase App:

- 1 Tap **Menu** and select **Settings**.
- 2 Tap **Reset** in the top right corner.
- 3 Tap **Reset everything and unlink device**.
- 4 Tap **Continue**.
- 5 Enter the One-Time Password (OTP) sent to your registered mobile number or email ID to initiate the reset.
- 6 A notification is displayed once the reset is complete.



NOTE: Master Reset is only available in the Enphase App. The device needs to be connected to the internet.



Things to remember

Once the **Master Reset** is completed, the device will be restored to its factory settings as follows:

- No Enphase Account is associated with the device.

- All connectivity credentials and device data are erased.
- All device and app customizations and settings are erased.
- All user data stored in the device is lost.
- The user will have to set up the device and connect the device to the Enphase Account again.

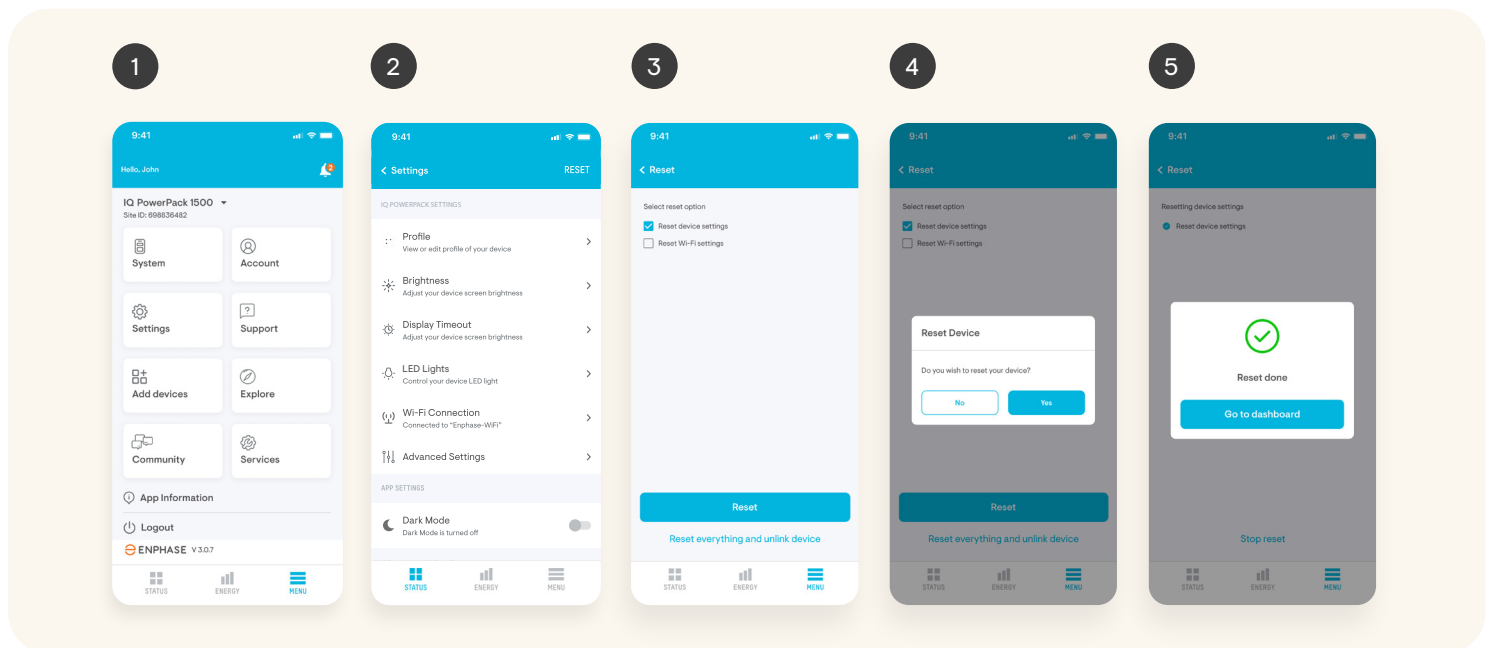
12.4.2 Limited Reset

Limited Reset allows the user to pick and choose from a group of options. This is useful when the device ownership is transferred between family members.

Through the Enphase App

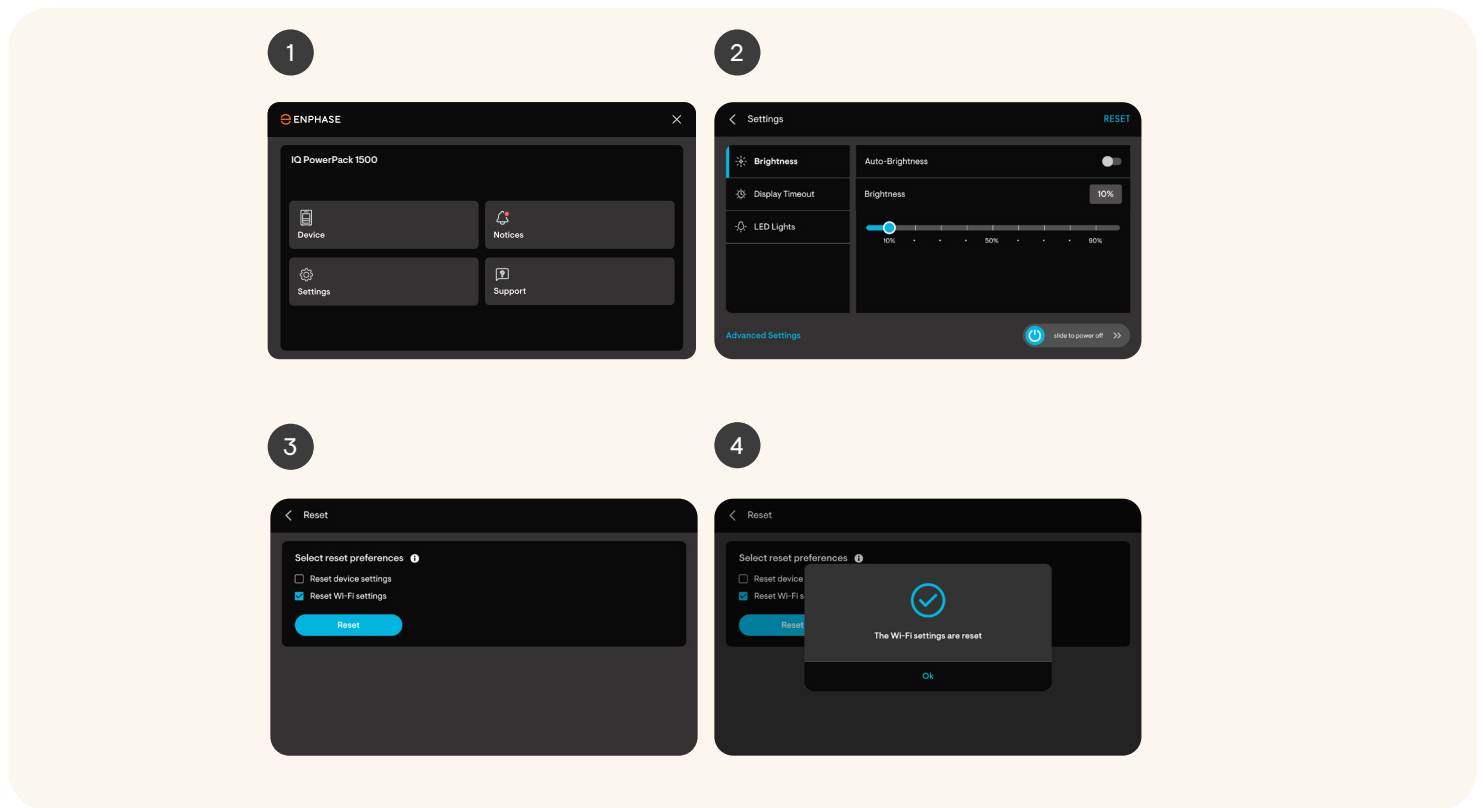
To start **Limited Reset** through the Enphase App:

- 1 Tap **Menu** and select **Settings**.
- 2 Tap **Reset** in the top right corner.
- 3 Select the settings required to be reset. Tap the **Reset** button.
- 4 Confirm the selected reset settings by tapping **Yes** to initiate the reset.
- 5 A notification is displayed once the reset is complete.



Through the LCD touchscreen of the device

To start **Limited Reset** through the LCD touchscreen of the device:



1 Tap  icon and select **Settings**.

2 Tap **Reset** in the top right corner.

3 Select the settings required to be reset and tap the **Reset** button to initiate the reset.

4 A notification is displayed once the reset is completed.



Things to remember:

The differences between the two types of Resets are:

- **Master Reset** restores the device to factory settings; the user account and user data are erased from the device; and **Master Reset** can be done only through the Enphase App.
- **Limited Reset** erases selective user settings. However, the user account associated with the device is retained. Limited Reset can be done on the LCD touchscreen of the device or in the Enphase App.

NOTE: Limited Reset is available through both the LCD touchscreen of the device and the Enphase App.

13

Guidelines for proper device handling



13.1 Do not disassemble the device

- No user-serviceable parts are inside.
The IQ PowerPack 1500 and its components should be repaired or replaced by an Enphase-authorized professional only.
- Do not attempt to repair the device or to replace or remove the battery yourself as it could lead to battery damage, overheating, fire, or injury.
- Repairs performed by untrained individuals or the use of parts not recommended by Enphase will void the warranty.

13.2 Maintenance & usage instructions

- As per the battery shipping guidelines, the device will arrive at your place with a battery charge of 30% or less. After unboxing, charge the device to 100% from an AC outlet before the first-time use.
- Keep the device clean and wipe off any moisture after it's been used outdoors.
- Ensure that the vents in the front and rear of the device are unobstructed. If any debris or dust accumulates, wipe the vents clean.
- Use the device at least once a month. This will ensure that the battery and device components are in optimum state. Avoid prolonged device shutdown periods. Longer than six months of shutdown may deplete the battery and cause unrecoverable damage to the battery. When storing the device for an extended period, charge the battery to 60% or more every 6 months.
- Do not operate the device beyond the specified temperature limits. Refer to the [Operating temperature limits](#) section for details.
- Do not store the device below -22°F (-30°C) or above 140°F (60°C). Refer to the [Device storage instructions](#) section for details.
- Always place the IQ PowerPack 1500 on a stable surface during operation or storage.
- Do not block the air vents on the front panel and the rear panel to allow adequate air circulation. Keep the protection covers closed when the output ports are not in use to avoid dust or water ingress.
- Connect the device to the internet at least once a month to keep it current with the latest system updates.
- Do not attempt to combine the outputs of multiple IQ PowerPack units to increase voltage or output power. Connecting AC outputs together to create 240 V or to increase 120 V power is strictly prohibited. Doing so is extremely dangerous, can result in electrical failure, and will void the product warranty.

13.3 Exposure to extreme heat and liquids

The IQ PowerPack 1500, cables and accessories may become warm during use. To reduce the possibility of overheating, always ensure sufficient ventilation around the device.

Avoid common mistakes to decrease the risk of accidents. Do not cover the device with cloth or blanket. Avoid leaving the device near a fireplace or any object that radiates heat. Do not push anything into the vents. Keep the device away from any liquids and sources that spill fluids or melt upon heating.

13.4 Disposal

- Batteries and electronic waste should be disposed of according to local environmental laws and guidelines. Do not mix batteries or electronic waste with household waste.
- If conditions allow, thoroughly drain the battery before disposing of it in an authorized battery recycling bin.
- Because the product consists of batteries that contain potentially hazardous chemicals, it is illegal to dispose of them in regular trash cans.
- Do not dispose of the battery in the battery recycling box if it cannot be fully drained due to a product fault. Contact a competent battery recycling firm for further processing in this scenario.
- The product reaches its end-of-life stage when the SoH (State of Health) of the battery reaches below 50%.

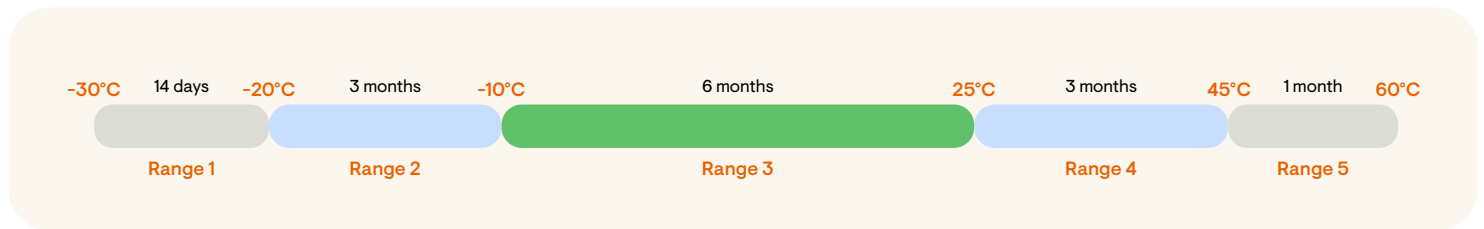
13.5 Moving instructions

- When moving the device, lift it with both hands and keep it close to your body to avoid accidental drops. While transporting the device over a long distance, use the IQ Cart for improved portability. The IQ Cart is available for purchase from the Enphase Store.
- When lifting-
 - Hold the front and rear handles firmly.
 - Do not jerk the device and keep it close to your body.
 - Bend your hips and knees when lifting, do not use your back alone.
 - Do not lift the device above shoulder level.
 - Take breaks while carrying the device over a long distance.
- Do not drag the device to avoid any damage to its base.
- When transporting the device in the trunk of a car, secure it with straps or pack it tightly with other luggage to prevent the device from sliding or tipping over. When transporting the device inside the cabin of a car, place it between the front and back seats and ensure a snug fit.

13.6 Device storage instructions

To store the IQ PowerPack 1500:

- Keep it in a cool, well-ventilated, and dry place.
 - Do not store the device outdoors.
 - Do not store the device in a vehicle.
 - Place the device at least two inches away from the wall.
 - If there are multiple devices, keep them two inches apart and do not stack.
 - Charge the battery to 100% before storage.
 - The storage temperature must be between -30°C and 60°C.
- Follow the chart below to determine the time interval for which the device can be stored in a particular ambient temperature range. If the temperature of the storage location varies such that it overlaps multiple ranges, then the lowest storage interval will be applicable. After the storage interval has elapsed, use the device for a few days, or recharge the device to more than 60% before putting it back in storage. Failure to do so may degrade or damage the battery and void the warranty.



13.7 Operating temperature limits

Normal operating temperature range

The normal operating temperature range for discharging the battery is from 0°C (32°F) to 40°C (104°F); for charging, the normal operating temperature range is from 10°C (50°F) to 40°C (104°F). In the normal range, the device can be charged and discharged at its maximum power rating as stipulated in the IQ PowerPack 1500 data sheet.

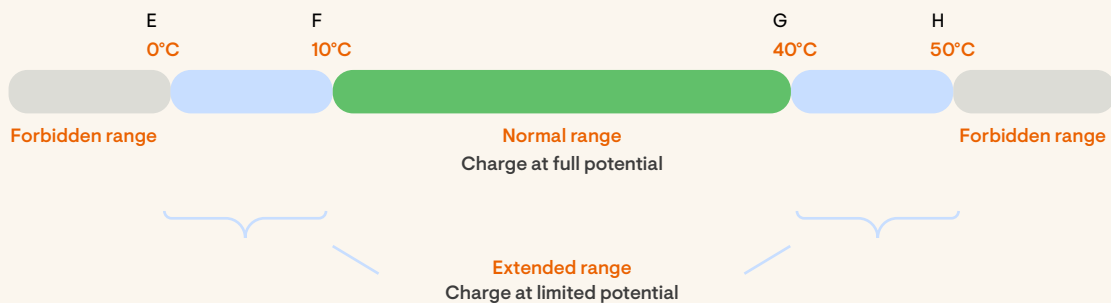
Forbidden Range

Do not operate the device in this temperature range. Failure to do so may damage the battery and void the warranty.

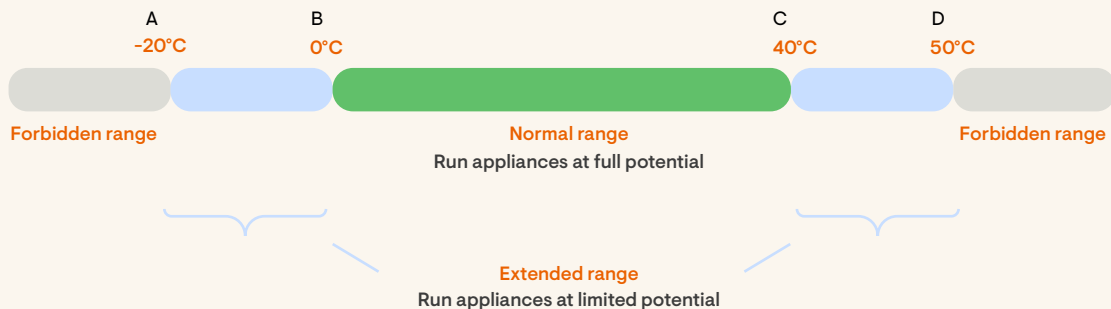
Extended operating temperature range

The charging and discharging capability is reduced when operating in the extended operating temperature range. The device may be functional but operates in a sub-optimal way. Avoid operating in this range beyond a short duration. Prolonged usage in the extended range may shorten the device's battery life.

Charge your unit



Run appliances



14

Notifications and troubleshooting



The IQ PowerPack 1500 is supported by a smart framework of hardware and software for troubleshooting and self-recovery should an error occur. The device detects and clears most errors automatically. In case an error cannot be cleared automatically, users are notified with a set of instructions on the LCD touchscreen and in the Enphase App. Always follow the instructions to recover your device and return to operation.

14.1 Notifications

IQ PowerPack 1500 keeps users informed of its operational status with notifications on the LCD touchscreen and in the Enphase App.

Notifications can be of the following type:

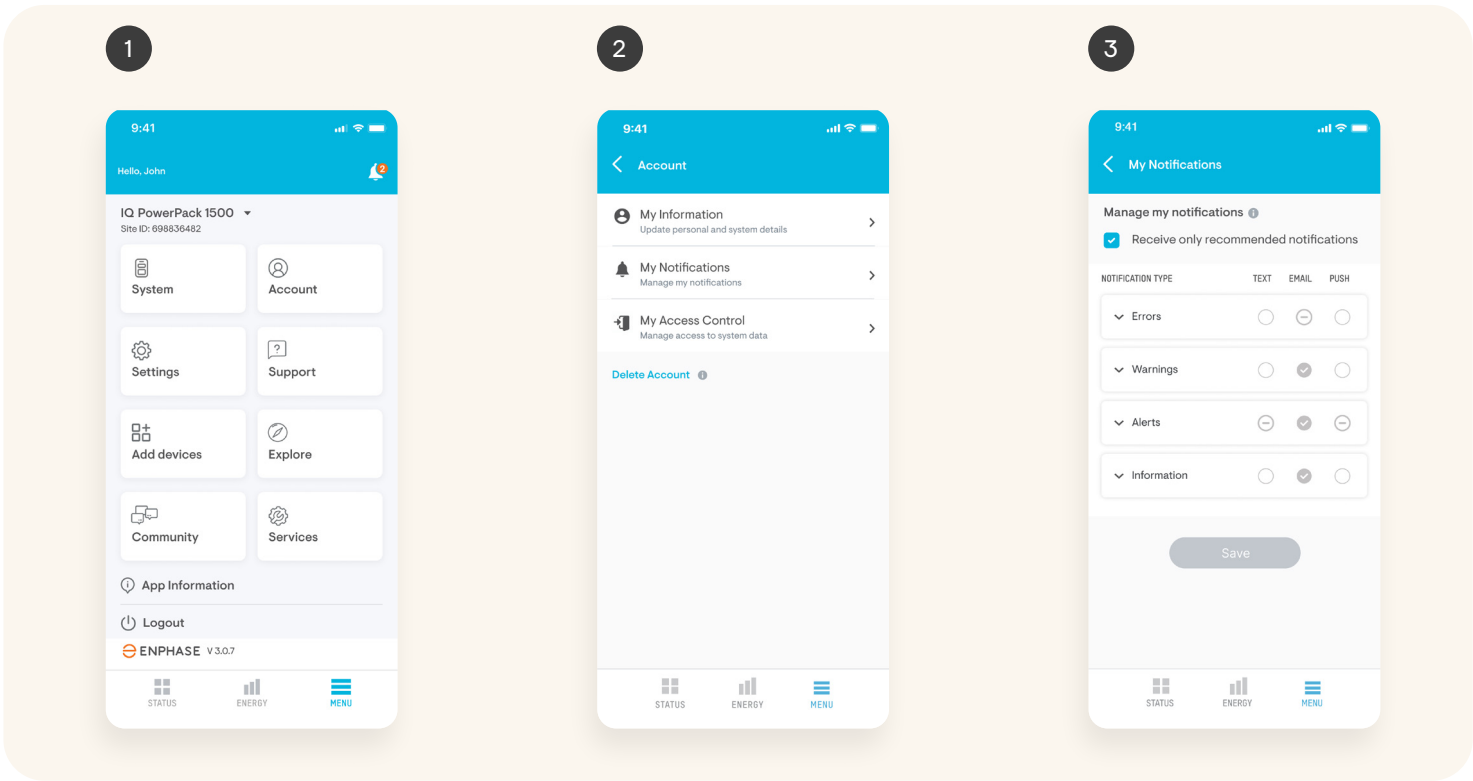
- Alert
- Error
- Warning
- RMA (Return Merchandise Authorization) to repair or replace

Pay special attention to:

- The appliances you were using when the error occurred. Errors that occur only with specific appliances might indicate that these appliances are incompatible with IQ PowerPack 1500.
- Incompatible cables or cables not provided by Enphase. Using such cables may cause errors or device malfunction.
- Any recent system update, especially the updates that were not successfully installed.
- Unstable power sources that the device is connected to such as extra solar panels, any external DC 12V battery, or fluctuations in the AC Grid input voltage.

LCD touchscreen notifications are provided as pop-ups and banners on the screen.

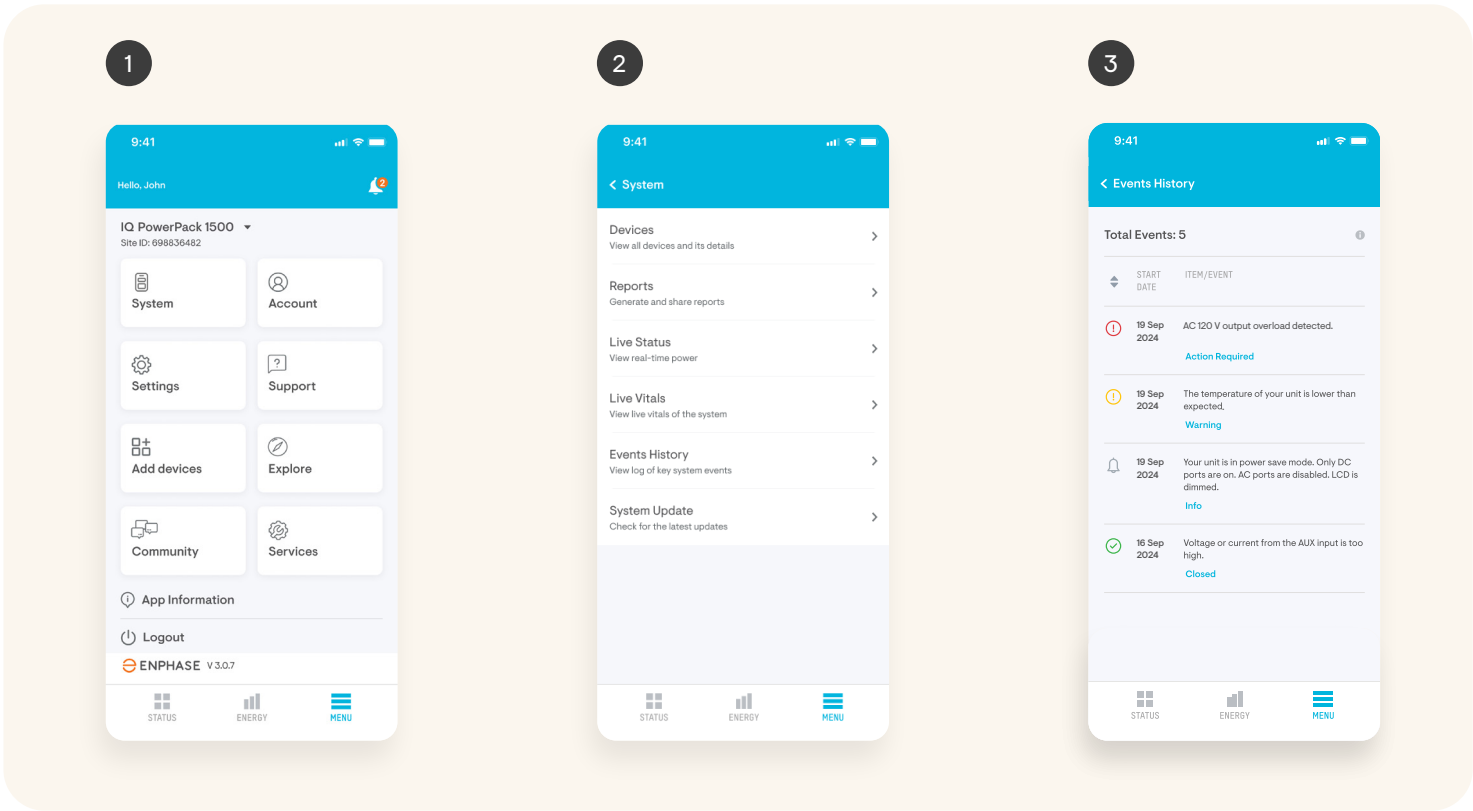
The Enphase App notifications are provided as in-app pop-ups or by push notifications, text messages, or emails.



- 1 Tap Menu.
- 2 Tap System.
- 3 Tap My Notifications.

You can choose to enable or disable the communication channels on the **My Notifications** page.

A summary log of notifications is available on the **Events History** page.



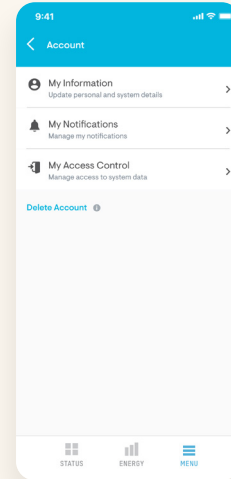
1 Tap Menu.

2 Tap System.

3 Tap Events History.

14.1.1 Notification: Alert

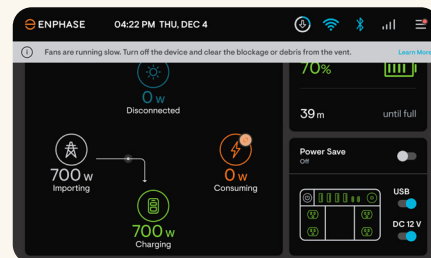
Alert notifications provide status updates whenever there is a change in the state of inputs, outputs, battery, connectivity, or the system. These notifications are available as push notifications, text messages, or emails. The user can select the methods of communication in **My Notifications**. For example, if push notification is selected for battery status, a notification is sent to the user's smartphone when the battery starts charging or finishes charging.



14.1.2 Notification: Warning

Warning notifications are triggered when the device is about to run into an error. A set of instructions may be provided to remedy the situation.

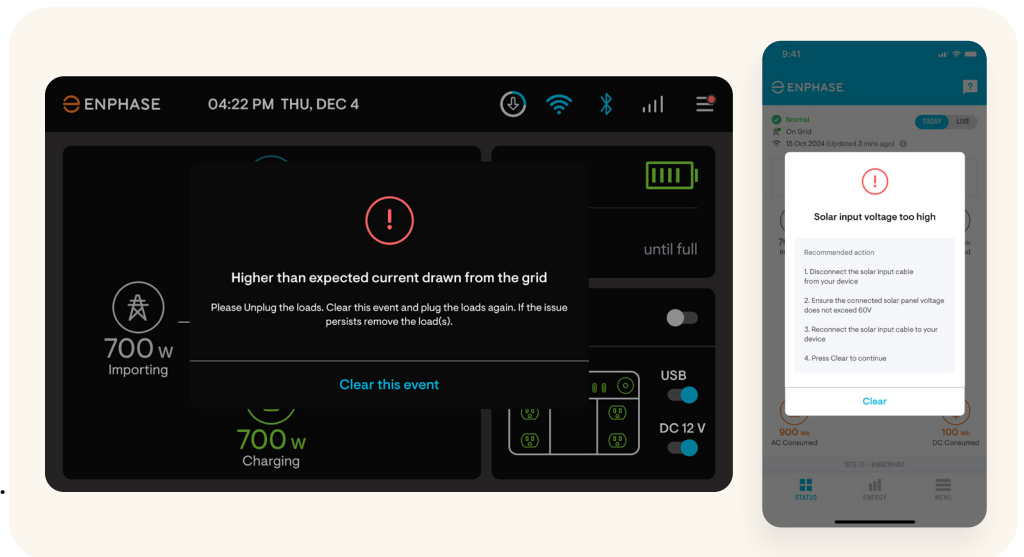
For example, a “Fans are running slow” notification is sent when a potential blockage of the air vent is causing the fans to run slower than expected. Turn off the device and clear blockage or debris from the vent. Another example is when a “Cell imbalance: Battery self-maintenance needed” notification is sent, users are instructed to charge the device to full using AC Grid input.



14.1.3 Notification: Error

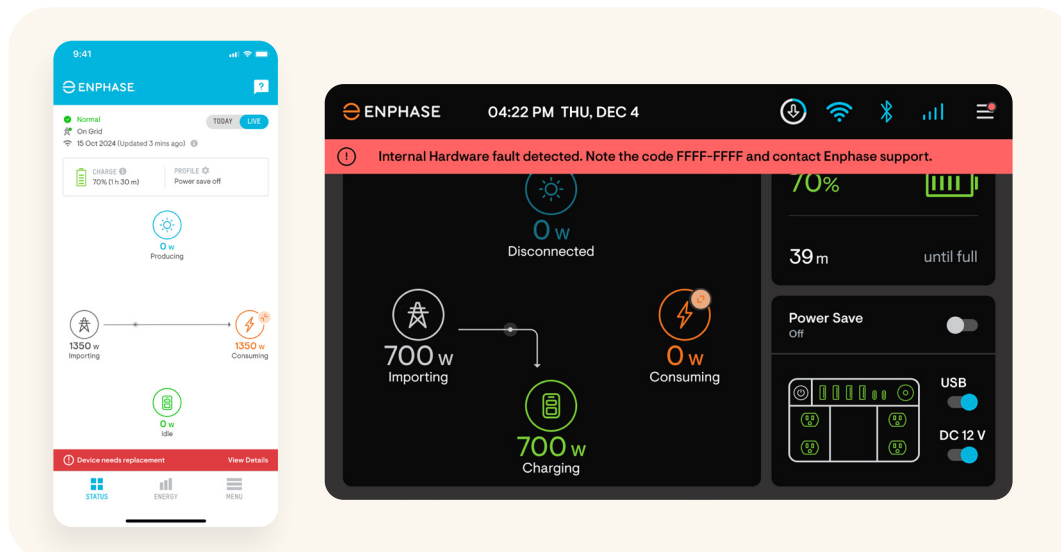
Error notifications are triggered when the device encounters an error. In such a situation, the device needs immediate user attention to resolve the error condition. Always follow the **Recommended action** provided with the error notification. Once you complete the prescribed action, the device should start performing normally.

E.g., DC Solar input voltage is too high.



14.1.4 Notifications: RMA (Return Merchandise Authorization)

When the device encounters an irrecoverable fault such as internal malfunction or hardware failure, an RMA notification is triggered. In such a case, the device needs to be replaced or repaired. In case of an internal hardware fault, note the code displayed on the LCD touchscreen or in the Enphase App and contact Enphase Support.



14.2 Resetting the AC circuit breaker on the rear panel

The IQ PowerPack 1500 comes with a built-in AC circuit breaker on the rear of the device. The AC circuit breaker will trip to protect the device from overcurrent or short circuits on the AC grid input port.

When the AC circuit breaker trips, the device will shut off the AC Grid input source, the breaker button will pop out, and the LCD touchscreen will display a notification. To reset the device, disconnect all input and output ports, then push the AC circuit breaker button inwards.

When the breaker trips due to an overload condition, reduce or remove the connected AC appliances.



Things to remember:

If the AC circuit breaker fails or is damaged, contact Enphase Support for assistance.

14.3 Enphase Support

Need help? Reach us at enphase.com/support
OR call us at (877)-797-4743

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Warranty



Your device is backed by an Enphase limited warranty. For detailed information on terms and conditions, visit <https://enphase.com/installers/resources/warranty>.

Exposing the device to operating conditions beyond its limits and specifications or using it in a manner different from operating instructions in the user manual will void the warranty.

To ensure warranty coverage:

- Do not operate the device outside the operating temperature limits specified in the data sheet.
- Do not operate the device beyond the limits of environmental conditions specified in the data sheet including humidity, altitude, etc.
- Do not store the device outside the specified storage temperature range.
- Only use Enphase-provided cables and accessories.
- Device must be powered on and charged to full before the 'Energize by date' printed on the packaging.
- The device must be charged to 60% or more once every 6 months.
- Do not disassemble or attempt to repair the device on your own.
- Do not immerse the device in liquids or expose it to flooding.
- While charging, do not exceed the voltage and current limits of the input ports specified in this document.

Internet connection

The IQ PowerPack 1500 is intended to operate with an internet connection. Maintaining an internet connection is essential for system updates and remote monitoring of the device.



Things to remember:

- For the best user experience, set up Wi-Fi as soon as possible after unboxing.
- Once Wi-Fi is set up, the device connects to Wi-Fi automatically, every time it is powered on.
- Power on and connect the device to the internet at least once a month for the latest system updates.

16

Compliance and certifications



16.1 Summary

The IQ PowerPack 1500 is tested and certified by third-party labs for safety, reliability, radio interference, and temporary outdoor use.

IQ POWERPACK 1500	
UL 2743 safety standard	Meets the safety, performance, and reliability criteria of portable devices with battery
UL 9540A test	Meets the performance criteria of UL 9540 A test for thermal runaway fire propagation protection in residential use
UL 2743 temporary outdoor use	Additional criteria met for temporary outdoor use in limited wet conditions
UL 1642	Safety standard met for lithium batteries for use as power sources in products
FCC Part 15 B and C	Meets requirements for intentional and unintentional electromagnetic interference and compatibility
UN 38.3, ISTA 6A	Meets requirements and criteria for safe transportation of battery-based devices
Telcordia GR-63 drop test	Meets performance criteria to withstand accidental drops
PTCRB, Carrier certification	Meets requirements for safe operation of cellular networks
UL 2089	12V Auxiliary cable adapter
IEC 60730	device functional safety

16.2 FCC Compliance

The IQ PowerPack 1500 has been tested to the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance may void the user's authority to operate the equipment.

This device should be installed and operated with a minimum distance of 20 cm from the user.

16.3 Radio frequency exposure

The IQ PowerPack 1500 has been tested and meets applicable limits for radio frequency (RF) exposure per FCC (Federal Communications Commission) requirements.

Revision history

REVISION	DATE	DESCRIPTION
USG-00064-10.0	April 2026	Updated the product images.
USG-00064-9.0	February 2026	• Added “Things to remeber” to the section 5.5, on page 55. • Added a section “Avoid shading on the solar panel” to the section 6.3, on page 59. • Updated the section “4.2.2 and 4.3.2 with the Enphase App screenshots. • Updated the section “4.3 Device profiles” with 5 profiles.
USG-00064-8.0	October 2025	Updated the product images.
USG-00064-7.0	June 2025	Added an instruction to section 13.2, on page 94.
USG-00064-6.0	June 2025	Internal release.
USG-00064-5.0	April 2025	Added “Things to remember” point for the “Device data and the Enphase Cloud” section, on page 85.
USG-00064-4.0	April 2025	• Updated the new LCD and App screens on page 39. • Added a footnote (2) in the IQ PowerPack technical specs table.
USG-00064-3.0	February 2025	Added “Charge from the GFCI socket” section.
USG-00064-2.0	January 2025	• Added a footnote for DC 12 V. • Updated the weight. • Added the points for Enphase App version and charging of AC grid under “Things to remember”.
USG-00064-1.0	November 2024	Initial release.

IQ PowerPack-1500-USG-00064-10.0 EN-US 2026-04-10

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