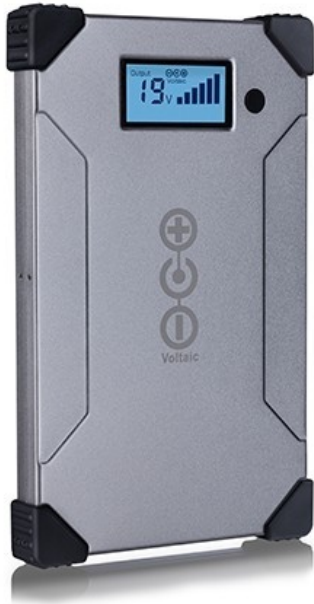


V88 USB-C PD Battery Pack by Voltaic



Price: CAD \$225.00

SKU: VCBATT-V88-USBC

Product Categories: [Portable Universal Packs](#), [Batteries](#), [Camps](#), [In The Field](#), [Lithium](#), [On Location Off-Grid](#), [On The Road](#), [On The Trail](#), [Packable USB Battery Packs](#), [Research](#), [SAR & Military](#), [Shop](#)

Product Tags: [88](#), [88whr](#), [battery pack](#), [canada](#), [laptop battery](#), [pd](#), [power delivery](#), [solar](#), [solar battery](#), [solar laptop battery](#), [usb-c](#), [usb-c pd](#), [v88](#), [v88 battery](#), [v88 canada](#), [voltaic systems](#), [voltaic v88](#), [voltaic v88 canada](#)

Product Page:

<https://www.modernoutpost.com/product/v88-usb-c-pd-battery-pack-by-voltaic/>

Product Summary

When it comes to packable solar battery packs to support all small electronics up to & including laptops, it doesn't get any better than the Voltaic V88 USB-c PD battery

pack. This lightweight 24,000 mAh / 88 Wh laptop battery pack will power most laptops (including MacBooks with optional adapter), tablets, smartphones and digital cameras. This updated model features USB-C Power Delivery!

Product Description

When it comes to packable solar battery packs to support all small electronics up to & including laptops, it doesn't get any better than the Voltaic V88 USB-c PD battery pack. This lightweight 24,000 mAh / 88 Wh laptop battery pack will power most laptops (including MacBooks with optional adapter), tablets, smartphones and digital cameras. This updated model features USB-C Power Delivery!

If you're always on the move, needing additional portable power for all your personal electronics, the V88 USB-c PD power pack is your answer. Forget the wall adaptor, running straight from battery to device is far more efficient. Inverters in other battery packs of this size range waste 20-30% of your energy in creating household AC power that your devices convert back to DC anyway. With all the V88's output settings, full-power USB ports, and comprehensive collection of connectors, you have all your needs covered.

The V88 charges USB-C laptops 3x faster away from the grid. Compatible with most consumer laptops (including MacBook and Surface laptops), smartphones, tablets, DSLR cameras, and consumer drones.

- USB-C Power Delivery (Up To 45W) - Hi-Voltage Laptop Port (12V, 16V, 19V Or 24V) - USB Quick Charge 3.0 - Always On Mode **Voltaic V88 USB-c PD**

Features - Optimized For Solar Charging - Hi-Voltage Laptop Port (12V, 16V, 19V Or 24V) - USB Quick Charge And USB-C Port (5V/2A) - Input: Included AC Charger - Output: DC Car Charger

Connects to all major brands & models of laptop (MacBook [MagSafe 1](#)] & [Magsafe 2](#)], [MS Surface 2](#)] & [Surface 3/4](#)] available separately)

- USB-C PD 'Power Delivery' Functionality **How Does It Work?**

The V88 USB-c PD plugs into any "18V" Voltaic solar panel, and many non-Voltaic panels (like [P3](#)] & [Powerfilm](#)]) that provide either a 5.5x2.1mm barrel connector, or

a female car CLA (cigarette) socket with suitable USBc-PD output.

Or charge your V88 from any wall outlet. Solar output voltage should be 15V minimum.

The battery provides regulated power to a variety of devices.

USB Devices : Use the V88's USB & USB-c ports like you would any other

12V, 16V, 19V, & 24V Devices : Set the output voltage, plug in your device via one of the V88's connector tips & output cable, or use the 12V car socket



Throughput Charging! You can charge your device while the V88 is charging.

Charge Multiple Devices at The Same Time! : The USB ports are not affected by other port settings, so go ahead and charge your phone or tablet at the same time as your laptop.

Always-On Mode! : The battery can be easily set to remain 'on'. Ideal for applications where you can't have your equipment's power supply 'time-out'.

Voltaic V88 USB-c PD Specifications V88 Laptop Battery with USB-C PD -

Capacity: 88.8 Watt Hours - Output: 5V/2A USB, 5V/3A USB-C - Output (CLA/Cigarette Socket): 12V/6A, 16V/5A, 19V/4.5A, 24V 3.5A - Output: USB QC : 5V/3A, 3.6V-12V, 18W Max. - Input/Output: USB-C PD : 5V/3A-20V/2.2A (15W-44W) - Input Voltage Range: 14-25V, 3A (75W) - Battery Type: Li-Polymer - Protection: Short Circuit, Over Charge, Over Discharge, Over Current, Over Temperature **Size and Weight** - 1.5 pounds (702g) - 21.8cm x 13.7cm x 2.2cm **Charge Time** - 2.5-3 hours from included AC charger **Battery**

Functions: - DC Input to charge Voltaic battery - USB Quick Charge Output - USB-C PD Output - DC Output 12-24V

Included in the V88 kit...

- V88 USB-c PD Battery - Car Charger Socket - (5.5 x 2.5mm) charges devices that have a car charger - Standard Laptop Adapters (Optional adapters available for purchase) - Laptop Output Cable - connects to Laptop Adapters - AC Charger - charges V88 battery from AC [Read the application note regarding](#)

[USB-C laptop charging\]](#)

12V DC Charging the V88

You can charge the V88 from any vehicle's power socket (cigarette socket) using the [12V USB-C adaptor\]](#).

What is USB-C Power Delivery? From the Voltaic engineers...

USB-C Power Delivery: An Intro

USB-PD, or USB-C Power Delivery, is a new protocol specification that allows for faster and more flexible charging. It was developed concurrently with USB Type-C (USB-C) which is the physical connection, and it is a subset of the new USB 3.1 standards. What this means is that:

- The USB-C connector is reversible, so you won't have to struggle with flipping the plug until it fits – similar to how the iPhone's lightning connector works -
- Devices no longer need a separate USB and power jack, as older computers often have -
- Devices can charge and discharge through the same port, meaning power direction is no longer fixed -
- And most importantly, devices charge much faster! Without USB-PD, the fastest rate for USB-C would be 15W, but with PD it can go up to 100W

How does USB-C Power Delivery Work?

The basic gist of how it works is that two USB-PD enabled devices negotiate a power contract, or a handshake, when they're plugged into each other. They discuss how much power the source can support, as well as how much power the device being charged can handle. The standard for USB-C devices without PD is 5V/3A, but the voltage is configurable depending on the device and can go as high as 20V/5A (with an EMCA cable). Then they settle on a compatible rate which both the supply and device support and the charging (or discharging) begins.

It's important to note that not all USB-C ports support USB-PD, nor will all USB-C devices charge with all USB-C chargers. Take a look at PCWorld's [post](#) written three years ago to see someone's compatibility test; the key example here is that HP's Spectre X2 will only charge from its own charger. However, take a look at their [sequel](#), and you can see that USB-C has since become a near-universal standard.

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Who is Voltaic Systems?

Voltaic Systems is a full-service provider of remote charging solutions.

Established in 2004, Voltaic broke into the solar industry by designing the world's first solar backpack. Since then, they've applied their extensive knowledge and experience to provide a complete line of solar panels and battery packs for both consumer and industrial customers.

Modern Outpost has been promoting Voltaic Systems' products to the Canadian market since 2006.

From powering bednet distribution programs in Nigeria to designing custom power systems for large-scale asset tracking deployments, Voltaic's customers count on their equipment to keep their devices charged. They choose Voltaic not only for innovative, high-quality products but because of their commitment to understanding project needs.

Voltaic's mission is to promote sustainable technology through research and design while enabling our customers, big and small, to do more. We believe in quality engineering, collaborative problem solving and creating sustainable solutions that support our customers and the planet.

If you have any questions regarding Voltaic products, or wish to discuss a special solar project, please feel free to contact us.

Product Attributes

- Dimensions: 12 × 10 × 5 cm
- Weight: 1.4 kg

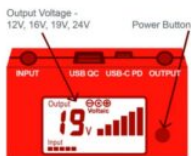
Product Gallery



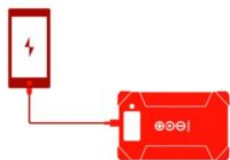




Charge USB, USB-C Devices, Laptops, and Other Electronics Anytime



Hold Power Button until the Output Voltage flashes, then release. Press Power Button to select your desired voltage level.



Connect to device with USB or USB-C cable. Compatible with DSLR USB Charging Cradles.



Connect battery to laptop with adapter or charge from USB-C PD output using a USB-C PD cable.