V250 USB-C PD Portable Solar Laptop Battery by Voltaic

Price: CAD $359.00

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Product Categories: Batteries, Bike Touring, On Location Off-Grid, On The Road, On The Trail, Portable Universal Battery Packs, SAR & Emergency, Supply, Trek Global
Product Tags: 250 wh, camera, canada, drone, lithium battery, pd, portable lithium, solar battery, usb-c, v250, v250 battery, v250 battery canada, voltaic v250, voltaic v250 canada
Product Page: https://www.modernoutpost.com/product/v250-portable-solar-laptop-battery-usb-c-pd-by-voltaic/

Product Summary

This is the V250 USB-C PD Portable Solar Laptop Battery by Voltaic Systems. One of the incredible line of solar batteries from Voltaic that powers your laptop,

smartphone, GPS systems, drones, and just about any other small electronics. We've been carrying Voltaic equipment for over 10 years, and their quality & reliability stand-out against any other brands.

Product Description

This is the V250 USB-C PD Portable Solar Laptop Battery by Voltaic Systems. One of the incredible line of solar batteries from Voltaic that powers your laptop, smartphone, GPS systems, drones, and just about any other small electronics. We've been carrying Voltaic equipment for over 15 years, and their quality & reliability stand-out against any other brands.
No inverter... this is all DC, and that's a good thing. Inverters waste up to 30% of your battery power in creating the 120V household AC power that your device's wall adaptor would just convert back to DC anyway. Stop wasting energy, and plug in directly to USB, USB-C with power delivery, or any of the multiple voltage settings this battery supports.
The V250 USB-C PD Portable Laptop Battery is a workhorse for all day laptop and device charging. Compatible with most consumer laptops (including MacBooks with your USB-C cable or an optional adapter), smartphones, tablets, DSLR cameras, and consumer drones.

- Up to 3X Laptop Charges and 17X Smartphone Charges - 67,200mAh Capacity - 247 Watt hours - USB-C Power Delivery (up to 45W) - Hi-Voltage Laptop Port (12V, 16V, 19V or 24V) - USB Quick Charge 3.0 - Pass Through Charging - Built-in "Always On" feature for IoT and Time-Lapse Projects]

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Solar Charging the V250 USB-C PD Battery
The V250 is Solar-Ready
While you can always charge this from your wall outlet, or any USB-C PD port, the V250 excels at solar integration. Any solar module up to 50W (up to 25V DC) will work with the V250, and will charge from empty in a single sunny summer day.
Pass-Through Charging

Pass-through is the key here... charing from sunshine, or any other source, doesn't mean you can't plug your equipment into the V250. The battery system will prioritize your device, and only save any leftover charging power for itself. Operating just like any good off-grid solar system should.

12V DC Charging the V250

You can charge the V250 from any vehicle's power socket (cigarette socket) using the 12V USB-C adaptor].

Voltaic V250 USB-C PD Specifications ITEM: V250

Size and Weight - 21.8 x 13.7 x 4.9 cm - 1.37 kg **V250 Laptop Battery with USB-C PD** - Capacity: 67,200 mAh / 246.6 Watt Hours - Output: 12V/6A, 16V/5A, 19V/4.5A, 24V/3.5A - USB QC: 5V/3A, 3.6V-12V, 18W Max - USB-C PD: 5V/3A-20V/2.2A - DC Input: 18-25V/2A - Battery Type: Li-Ion - Protection: Short Circuit, Over Charge, Over Discharge, Over Current, Over Temperature (35℃ Input Cutoff, 45℃ Output Cutoff), Under Temperature (0℃ Input Cutoff, -20℃ Output Cutoff) - Check with your airline for air travel (Carry-on Luggage Only)]

AC Charge Time - 8 hours from included AC charger **Includes:** - V250 USB-C PD Universal Laptop Battery - 18V AC Charger - Standard Laptop Adapters - Laptop Output Cable - Car Charger Socket (CLA cigarette) **Always On Mode**Battery features an Always On mode activated with the power button. In Always On mode, the outputs will not shut off even if your device is drawing low or no power. Battery recovers into Always On mode when charged after a full discharge.

Power consumption in Always On mode is approximately 0.11W when connected to the USB port and 0.22W when connected to the high voltage (12, 16, 19, 24V) output.

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

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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.

Compatibility

Smartphones:

Charges all USB Devices including all Apple, Android, Google, and Blackberry smartphones.

Tablets:

Charges all known tablets using the manufacturer's USB charging cable.

Digital Cameras:

Charges both DSLRs and point-and-shoot cameras that charge from USB. For DSLRs, an optional camera charger cradle that matches your camera battery (see Adapter Section) is required. Read our tutorial on solar camera charging.

Microcontrollers:

Compatible with most microcontrollers including Arduino and Raspberry Pi.

Laptops:

Charges most consumer grade laptops (15” or smaller) from one of our Standard or Optional Laptop Adapters.**Note:** Gaming laptops are not compatible with the V88 due to high power requirements that exceed the maximum output of the the battery.

USB-C Laptops: Compatible with all laptops that charge from USB Type C. Charge directly from the USB-C PD Output using a USB-C to USB-C laptop cable (not included).

Acer: Standard “E” or Standard “L” Adapter

Apple: For pre-Thunderbolt MacBooks, optional MagSafe 1 or Optional MagSafe 2 Adapter. Read our guide to charging MacBooks for more information.

ASUS: Standard “C” Adapter or Optional 4.0 x 1.35 mm Adapter

Dell: Standard DELL Adapter or Optional Dell 4.5 x 2.8 x 0.6 mm Adapter

HP: Optional HP 7.4 x 5.0 x 0.6 mm Adapter or Optional HP 4.5 x 2.8 x 0.6 mm Adapter

Lenovo: Standard Lenovo Square Adapter, Standard “G” Adapter, Standard “K” Adapter, or Optional Lenovo Slim Tip Adapter **Microsoft**: Optional Surface Pro / Book Adapter or Optional Surface 2 Adapter

Samsung:Standard “H” Adapter or Standard “C” Adapter

Toshiba: Standard “G” Adapter, Standard “C” Adapter, or Optional “B” Adapter

For additional information, visit our Laptop Adapter Guide.

AA / AAA Chargers:

If your device (headlamp, flashlight, radio, etc.) uses rechargeable AA / AAA batteries, confirm the device can safely charge from a 2A power supply before charging from the V88's USB port. To ensure safe charging to your AA / AAA batteries, consider using our USB AA / AAA Charger.

Medical Devices:

Not compatible with medical devices, including CPAP machines.

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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: 1 × 1 × 1 cm
- Weight: 0.9 kg

Product Gallery


Voltaic