Voltaic

USB Battery Pack & Solar Charger Instructions

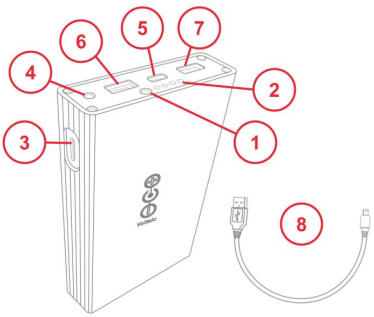
For V25, V50 & V75

support@voltaicsystems.com

Instructions

The Voltaic USB Battery Packs are designed to charge most USB devices including smartphones, tablets, DSLR cameras, and micro-controllers. To charge your device, simply plug into either of the USB-A “Always On” outputs or top USB-C port. The battery packs can be recharged via any USB port or from a Voltaic 5-7V solar panel. Battery packs can be charged while charging your device.

The interior of a solar charger case can become hot in the sun. In hot conditions, open the battery compartment to increase air flow and avoid overheating.



Product Details

1. Charge Level Button
2. Charge Level Indicator
3. USB-C Solar Input
4. 3.5x1.1mm DC Solar Input
5. USB-C PD Input/Output
6. USB-A “Always On” Output
7. USB-A “Always On” Output
8. USB-C Charging Cable

Charging USB Devices

Using your device’s USB charging cable, plug directly into either of the two (2) USB-A for output. Or use a standard USB-C cable for output from the top USB-C PD port. Device will automatically begin to charge.

2 x USB-A ports feature “Always On” technology and are activated when a USB-A cable is connected. They will not shut off even if your device is drawing low or no power. To stop charging your device, double tap Charge Level Button or disconnect cable. To resume charging, tap Charge Level Button once. USB-C PD port is not compatible with “Always On”.

Remove cable(s) from USB Outputs when storing the battery.

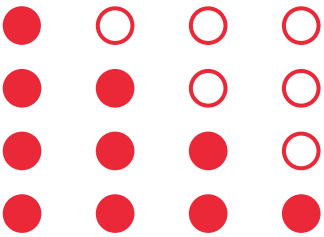


Charging Battery

Recharge the battery from a Voltaic 5-7 Volt solar panel or any USB port (with the included USB-C Charging Cable). Can also be recharged via top USB-C PD port using any USB-C to USB-C cable (not included). If using “Always On” feature, charge from side USB-C or 3.5x1.1mm DC Solar Input port.

Battery Level Indicator

Press Power Level Button to show charge level. LEDs will blink when charging and indicate charge progress.



25% Full

50% Full

75% Full

100% Full

Charge Times (Hours)

Power Source	V25	V50	V75
USB (5V)	2.5	5.0	7.5
USB-C PD (20W)	1.5	3.0	4.5
5W Solar Panel	6.0	12.0	18.0
10W Solar Panel	3.0	6.0	9.0

Tips for Fastest Solar Charging

1. Place solar panel outside in direct sunlight. Charge time increases on cloudy days.
2. Point panel directly at the sun, avoid shading the panel.
3. Confirm LEDs on battery are lighting up in sequence.

Specifications

V25 Battery: Li-Ion, 6,700mAh / 24.12Wh
V50 Battery: Li-Ion, 13,400mAh / 48.24Wh
V75 Battery: Li-Ion, 20,100mAh / 72.36Wh

All USB Battery Packs:
USB Outputs: 5V/3A max Output
Top USB-C: 5/9/12V 20W PD Input/Output
Side USB-C / 3.5x1.5mm DC Port: 5-6V/2A Solar Input
Protections: Short circuit, over charge, over discharge, over temperature, under temperature

Discharge and charge fully every 5 months to preserve battery life. Store between 20° to 35° C (68° to 95° F). Charge between 0° and 45° C (32° to 113° F). Discharge between -15° and 55° C (5° to 131° F). Do not expose battery to high heat or direct flame. Dispose of properly. Do not throw in trash or incinerate. Do not get battery wet, store in high humidity or otherwise short circuit. Do not disassemble or tamper with battery. Do not wire multiple batteries in parallel.

IEC 62133 IEC 62368-1