

Violetta Solargear VS02

Ref. VS02-M03MN-BP-CHE-059 Operating Instructions

Thank you very much for purchasing our product. Please read this manual thoroughly before using this product, and retain it for future reference in order to use the product safely, and to make the most of its features. If you use other products together with this product, please read the operating instructions of those products thoroughly before use as well.

Applications

- Designed for charging high capacity lithium-ion battery pack using sunlight.
- The battery pack can also be charged from USB ports of PCs.
- Designed for powering mobile appliances, such as cellular phones, smartphones, tablets and audio/visual devices with USB charger cables.

Features

- An easily detachable ultra-thin, light, weather-resistant and durable 7-inch tablet sized solar panel with the most efficient mono crystalline silicon solar cells and 4 mounting holes attached with strong Mil-Spec webbing.
- The battery pack with a 2.4A high output USB port for powering tablets, and another 1A USB output port for powering 2 mobile appliances simultaneously.
- A belt pouch with a flap with strong Mil-Spec tape fasteners, 2 compartments for battery packs and smartphones or 7-inch tablets and dual belt loops on the back fit any belts up to 2-inch wide. Handmade in Japan.
- Highly water repellent and quick drying Mil-Spec 500 denier coated solution dyed Cordura Nylon fabric with excellent resistance to fading, abrasion, IR reflection, rot and mildew with long life Mil-Spec webbing.

Important Safety Instructions

- Do not connect unauthorised cables to input/output ports of the battery pack.
- Do not touch metal objects to input/output ports of the battery pack.
- Do not short circuit, or disassemble the battery pack.
- Do not put the battery pack into water.
- Do not leave the battery pack near fire, in a hot car, or in a place prone to rain or snow.
- Do not drop, place heavy weight, or allow strong impact on the battery pack
- Stop charging in case of leakage from the batteries.
- Stop charging in case the batteries become unusually hot.
- Disconnect USB charger cable from the battery pack after batteries have completed charging.

Important Note

- We are not responsible for any physical damage to the appliances, any loss of memorized data, any interruption of business, and any loss of business opportunities caused by this product.

Specifications

Solar Panel Ref. VS02-M03MWN (White) or Ref. VS02-M03MNS (Silver)

- Panel Structure: mono crystalline solar cells
APS (aluminium composite sheet) substrate
UV resistant polymer potting
- Max. output*: 2.9W (DC6V 488mA)
- Dimensions: 120X200X5mm (WXDXH)
- Mounting holes: Φ 6.5 X4
- Output cable: 1m cable with USB port
- Weight: approx. 180g
- Operating temperature: -30 - 80°C

Battery Pack Ref. CHE-059

- Capacity: 48.24Wh (3.6V 13400mAh lithium-ion battery)
- Max. input: DC5V 2A
- Max. output: DC5V 2.4A X1 DC5V 1A X1 Total: DC5V 3.4A
- Charge time*: approx. 32 hours**
- Dimensions: 92X80X23mm (WXDXH)
- Weight: approx. 245g (excl. cables)
- Accessories: micro USB charger cable
- Operating temperature: -10°C-40°C

*Panel temperature 25°C AM1.5 1kW/m2

**You do not need to fully charge the battery pack before powering mobile appliances. Capacity of the battery pack is high enough.

Belt Pouch Ref. BP01

- Fabrics: 500 Denier coated Solution Dyed Cordura Nylon
MIL-C-43734D Class 3
Coyote Brown
- Color: 1.2L
- Dimensions: 230X130X40mm (WXDXH)
- Weight: approx. 60g

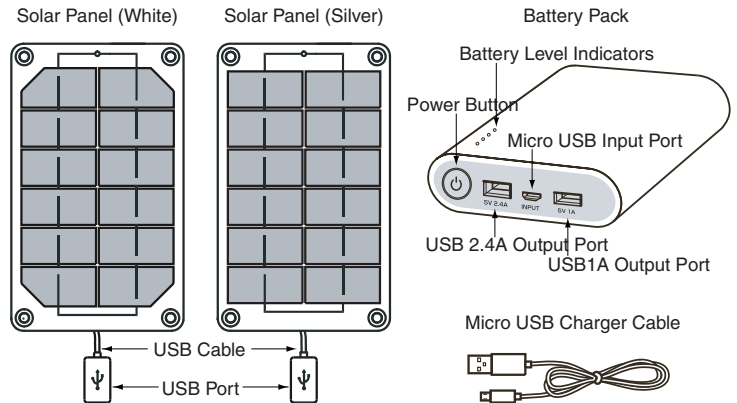
Maintenance

- Wipe the solar panel with a clean dried or dampened cloth, and the battery pack with a clean dried cloth. Do not use oil, solvents, petrol or paint thinners for cleaning.

Warranty

- Solar Panel: 1 year from the date of purchase
- Battery Pack: 6 months from the date of purchase

Feature Diagram



How to Use

Charging the lithium-ion battery pack

- 1 Connect the micro USB plug of the charger cable to the micro USB input port of the battery pack.
- 2 Connect the USB plug of the charger cable to the USB port of the solar panel or of PCs. The battery pack starts charging itself, with the battery level indicators flashing according to the charging status as follows.



⚠ **Note:** You cannot power mobile appliances while charging the battery pack.

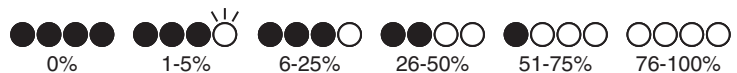
⚠ **Note:** You do not need to fully charge the battery pack before powering mobile appliances. Capacity of the battery pack is high enough.

⚠ **Note:** Please charge the battery pack once in every 3 months to avoid deterioration by self-discharge.

- 3 When charging is complete, disconnect the charger cable from the solar panel or from PCs and the battery pack.

Checking the remaining battery level

- 1 Press the power button. You can know the remaining battery level by 4 LED indicators as follows.



⚠ **Note:** When none of the indicators are on, the battery has no remaining charge, and the battery pack needs to be recharged.

⚠ **Note:** When one LED is blinking, the remaining battery level becomes very low, and the battery pack needs to be recharged.

Powering mobile appliances

- 1 Connect the USB charger cable to the mobile appliances.
- 2 Connect the USB charger cable to USB 2.4A output port or USB1A output port of the battery pack.

⚠ **Note:** When you power appliances requiring high current, such as tablets, the charging time can be reduced by connecting it to USB 2.4A output port.

⚠ **Note:** You can power 2 mobile appliances simultaneously by connecting them to both of the output ports.

- 3 Press the power button of the battery pack. It starts charging the connected appliances.

⚠ **Note:** It continues charging although the battery level indicators turn off in a few seconds.

⚠ **Note:** Some appliances may take about 1 minute to start charging after you press the power button.

- 4 When you have completed powering the appliances, disconnect the USB charger cable from the battery pack and the appliances.

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