

Violetta Solargear VS02

Ref. VS02-M05SPN-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

- A light yet impact resistant flexible solar panel just 2.0mm in thickness.
- Highly efficient mono crystalline solar cells.
- Strong neodymium magnets for easy mounting on a bag, on a metal fence, on a metal handrail or on the back of a glass window.
- Parallel Connection Cable (sold separately) to connect 2 solar panels to the battery pack for quick charging.
- 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.

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.
- Keep away the magnets from persons with pacemakers.
- Keep away the magnets from small children.
- Keep away the magnets from cellular phones, precision equipments, watches, magnetic cards and magnetic tapes.

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-M05SPN

- Materials: mono crystalline solar cells, PVDF, PET, EVA, TPT
- Max. output*: 5.0W (DC5V 1000mA)
- Dimensions: 140X260X2.0 / 14.0mm (WXDXH)
- Weight: approx. 106g (excl. accessories)
- Output terminals: USB port X1
- Safety features: voltage regulator
- Accessories: USB extension cable X1m
4 pcs. of Φ10X4mm neodymium magnets for mounting on a bag
- 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. 18 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.

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

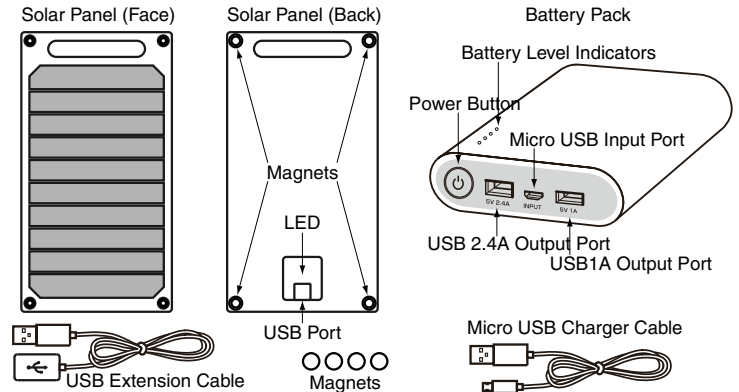
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Design and specifications are subject to change without notice. Made in China 01-06-19



Feature Diagram



How to Use

Mounting the Solar Panel

- 1** To mount the solar panel on a bag, place it on a bag, and stick 4 additional magnets on all the corners of the back of the panel inside of the bag.
- 2** To mount the solar panel on a metal fence or on a metal handrail, stick 4 magnets on all the corners of the back of the panel directly to it. You can also mount the panel on the back of a glass window by removing 4 magnets and fixing them on the face of the panel with a 7mm wrench and a Phillips head screwdriver. If the magnetic force is not enough, add appropriate number of magnets.
- 3** LED on the back turns on once the solar panel starts working.
- 4** You can connect 2 solar panels to the battery pack with Parallel Connection Cable (sold separately) for quick charging.

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.
- The diagram shows six sets of four LED indicators representing different battery levels: 0% (all 4 LEDs off), 1-5% (1 LED blinking), 6-25% (2 LEDs on), 26-50% (3 LEDs on), 51-75% (4 LEDs on), and 76-100% (all 4 LEDs on).
- ⚠ **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.