

# Violetta Solargear VS02

Ref. VS02-M10SF-RS-CHE-062 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 spherical silicon solar panel just 1.6mm in thickness equipped with light yet impact resistant silicon frames and 4 mounting holes attached with strong Mil-Spec tape fasteners.
- 2 USB output cables with a solar panel for charging 2 battery packs simultaneously.
- 3 USB output ports with a battery pack for powering 3 mobile appliances simultaneously.
- A classical and roomy roll top backpack with 2 outer pockets with flaps for battery packs, smartphones or water bottles and a large inner pocket for notebook PCs or tablets. 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-M10SF

- Panel Structure: spherical silicon flexible solar panel
- Max. output\*: 9.6W (5.6V 1.70A)
- Dimensions: 353X393X1.6 / 14.1mm (WXDXH)
- Mounting holes: Φ7 X4
- Output cable: 1m cable with USB port X2
- Weight: approx. 470g
- Operating temperature: -30 - 80°C

### Battery Pack Ref. CHE-062

- Capacity: 72.36Wh (3.6V 20100mAh lithium-ion battery)
- Max. input: DC5V 2A
- Max. output: DC5V 3A per port, DC5V 4.4A in total
- Charge time\*: approx. 13 hours (Solar)
- Dimensions: 101X117X23mm (WXDXH)
- Weight: approx. 375g (excl. cables)
- 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.

### Backpack Ref. RS01

- Fabrics: 500 Denier coated Solution Dyed Cordura Nylon MIL-C-43734D Class 3
- Color: Coyote Brown
- Capacity: 20L
- Dimensions: 353X460X140mm (WXDXH)
- Weight: approx. 550g

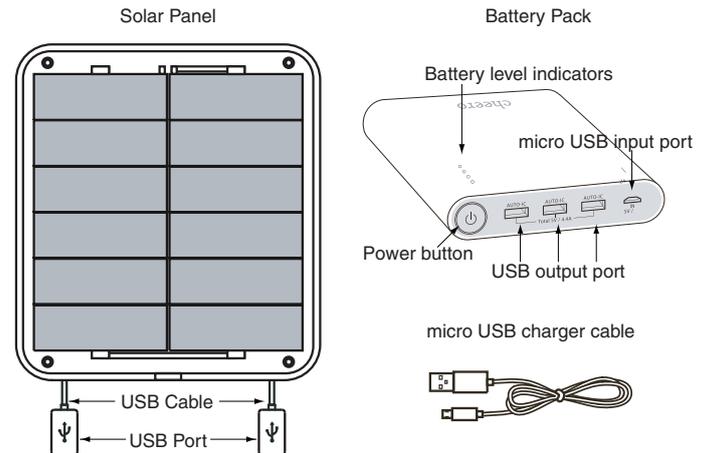
## Maintenance

- 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

### Mounting to the backpack

- 1 Match positions of the tape fasteners on right, left and top center of the solar panel and the backpack, and press them firmly.

### 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 USB port of the solar panel or PCs. The battery pack starts charging itself, with the battery level indicators flashing according to the charging status as follows.



- ⚠ **Note:** When you connect the battery pack to the solar panel under sunlight, it does not start charging until you face the panel to the shade.

- ⚠ **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, 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 USB charger cable to the mobile appliances.
- 2 Connect USB charger cable to one of the USB output ports of the battery pack.

- ⚠ **Note:** You can power 3 mobile appliances simultaneously by connecting them to 3 output ports. Max. output current is 3A per port and 4.4A in total.

- 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 USB charger cable from the battery pack and the appliances.

## STUDIO DEL SOLE INC.

2-10-34-1-101, Kamiosaki, Shinagawa-ku, Tokyo 141-0021, Japan.  
Tel: +81-3-5423-6801 Fax: +81-3-5423-6802 E-mail: support@violetta.com  
[www.violetta.com](http://www.violetta.com)

