

# Violetta Solargear VS02

Ref. VS02-M05SPN-MCUSBPRO 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 either 2 or 4 AA Ni-MH rechargeable batteries at the same time using sunlight.
- The batteries can also be charged from USB ports of PCs.
- Designed for charging the batteries of mobile appliances, such as cellular phones, smartphones 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.
- The battery pack with an LED indicator for charging and discharging status.

## Important Safety Instructions

- Charge only AA Ni-MH rechargeable batteries in the battery pack. Primary batteries may leak, catch fire or burst causing personal injury and damage.
- Do not charge batteries with different electrical capacities at the same time.
- Do not charge batteries with reverse polarity.
- Stop charging in case of leakage from the batteries.
- Stop charging in case the batteries become unusually hot.
- Do not connect unauthorised cables to input/output terminals of the battery pack.
- Do not touch metal objects to input/output terminals 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.
- 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: 145X300X2.0 / 14.0mm (WXDXH)
- Weight: approx. 120g (excl. accessories)
- Output terminals: USB port X1
- Safety features: voltage regulator
- Accessories: USB extension cable X1m
- Operating temperature: -30 - 80°C

### Battery Pack Ref. MCUSBPRO

- Max. output: 2 X AA Ni-MH batteries: DC5V 500mA  
4 X AA Ni-MH batteries: DC5V 1000mA
- Charge time\*: 2 X AA Ni-MH1600mAh Batteries: approx. 2.5 hours\*\*  
4 X AA Ni-MH1600mAh Batteries: approx. 4.5 hours\*\*
- Dimensions: 58X97X20mm (WXDXH)
- Weight: approx. 53g (excl. batteries)
- Operating temperature: 0°C-45°C

\*Panel temperature 25°C AM1.5 1kW/m2

\*\*You do not need to fully charge the battery pack before powering mobile appliances.

## 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

## STUDIO DEL SOLE INC.

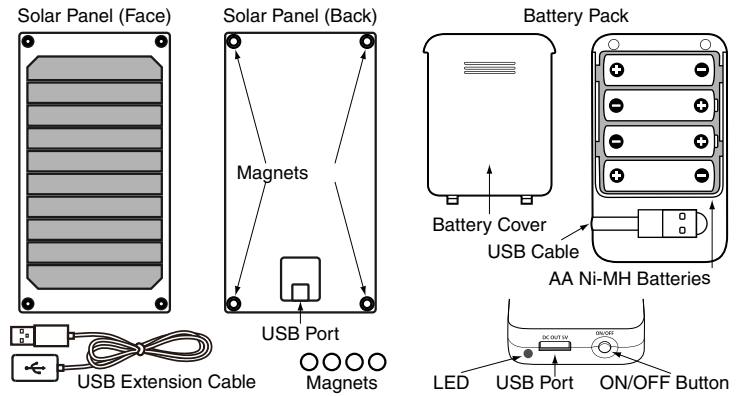
2-10-34-1-101, Kamiosaki, Shinagawa-ku, Tokyo 141-0021, Japan.

Tel: +81-3-5423-6801 Fax: +81-3-5423-6802 E-mail: support@violetta.com

[www.violetta.com](http://www.violetta.com)

Design and specifications are subject to change without notice. Made in China 01-01-23

## Feature Diagram



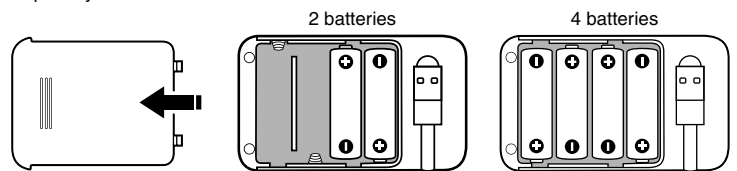
## How to Use

### 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.

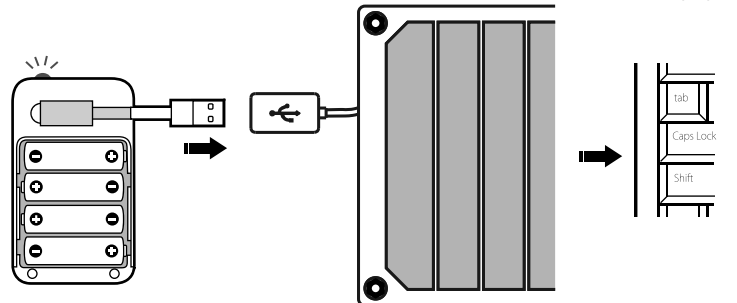
### Charging AA Ni-MH batteries

- 1 Open the battery cover, and insert 2 or 4 AA Ni-MH batteries, observing the correct polarity as shown below.



**Note:** Charge only AA Ni-MH rechargeable batteries in the battery pack. Do not charge batteries with different electrical capacities at the same time.

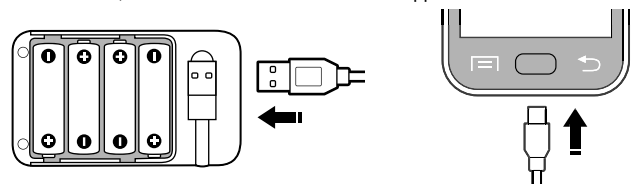
- 2 Pull out the USB cable from the battery pack, and connect it to the USB port of the extension cable from the solar panel or of a PC. LED blinks when it starts charging.



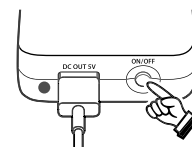
- 3 LED stops blinking and turns on when the batteries are fully charged.

### Charging the batteries of mobile appliances

- 1 Connect the USB charger cable to the USB port of the battery pack with charged AA Ni-MH batteries, and connect the other end to the appliance.



- 2 Press ON/OFF button. LED will turn on, and the battery of the appliance will start charging.



**Note:** When powering both AA Ni-MH batteries and a mobile appliance simultaneously, the battery of the appliance is charged first.

- 3 LED starts blinking when remaining level of AA Ni-MH batteries becomes low, and turns off when the batteries become empty.



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