

# Violetta Solargear VS02

Ref. VS02-M03MN-BP-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

- 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 an LED indicator for charging and discharging status.
- 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

**⚠ Caution** Please follow the instructions below. Failure to comply may damage this device, cause the built in battery to burst or result in leakage, fire and injury.

- 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.

## 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-M03MNV (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: Φ6.5 X4
- Output cable: 1m cable with USB port
- Weight: approx. 180g
- 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. 5 hours\*\*  
4 X AA Ni-MH1600mAh Batteries: approx. 9 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.

Belt Pouch Ref. BP01

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

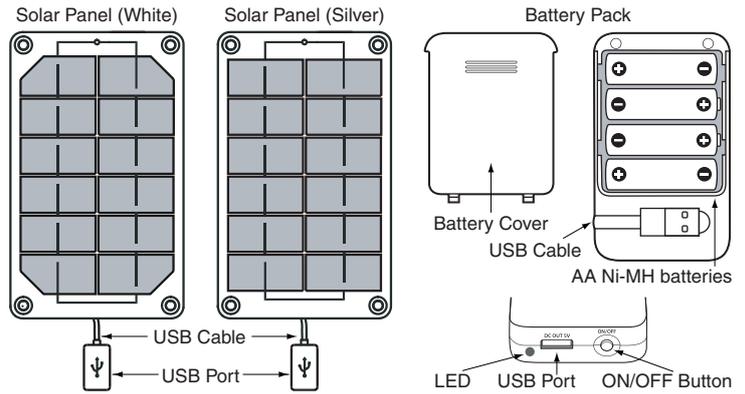
## Maintenance

- 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

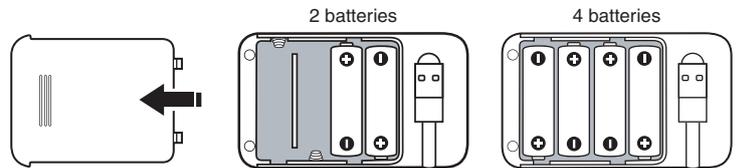
## Feature Diagram



## How to Use

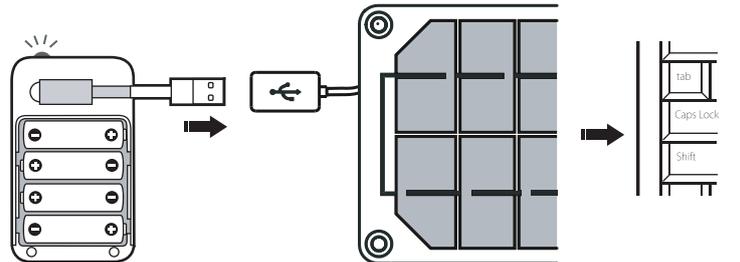
### Charging AA Ni-MH batteries

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

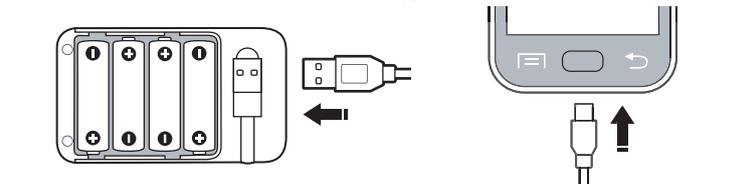


- 3** LED stops blinking and turns on when the batteries are fully charged

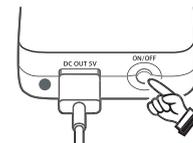


### Charging the batteries of mobile appliances

- 1** Connect USB charger cable to 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. The LED will turn on, and the appliance's batteries 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** Disconnect USB charger cable from the battery pack and the appliance after batteries have completed charging.

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