# Violetta Solargear VS12-M30SF Solar Panel 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.

#### Product Summary

A spherical silicon flexible solar panel for IP67 dust and waterproof mobile PV systems designed for powering a broad range of appliances. Composed of a combination of an ultra-thin, light and flexible solar panel and a compact, lightweight yet rugged battery compartment for ultimate portability, reliability, safety, impact resistance, weather resistance and ruggedness in business, disaster prevention, leisure and everyday living.

## Applications

Charging the built-in 12V battery by sunlight, and powering a broad range of appliances through AC100V, DC12V and DC5V output.

#### Features

- Light yet impact resistant spherical silicon flexible solar panel just 1.6mm in thickness with a silicon frame, a detachable shoulder strap and stainless steel grommets for easy carrying and a variety of mounts.
- An IP67 dust and water proof input connector for weather resistant outdoor installations.

### Important Safety Instructions

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

- Charge only the specified batteries.
- Do not allow metal objects to touch the input/output connectors.
- Do not block the automatic pressure equalization valve on the battery compartment.
- Do not short circuit, or disassemble this device.
- Do not put this device into water.
- Do not use or leave this device near fire.
- Do not use or leave this device in enclosed spaces.
- Do not use or leave this device in unstable high places.
- Stop charging in case of leakage from the battery.
- Stop charging in case the battery becomes unusually hot.

#### Important Note

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

	Specifications
<ul> <li>Max. power*:</li> <li>Open circuit voltage*:</li> </ul>	29.8W(16.8V 1.78A) 20.9V
<ul> <li>Operating temperature:</li> <li>Dimensions (WXDXH):</li> </ul>	1.95A -30 - 80°C 515X728X1.6 / 14.1mm
<ul><li>Weight:</li><li>Mounting holes:</li></ul>	approx. 1.4kg (excl. accessories) Ф7 stainless steel grommet X 4
<ul> <li>Output cable:</li> <li>Safety features:</li> <li>Accessories:</li> </ul>	3m jacket cable with IP67 dust and water proof connector a Schottkey diode for reverse current prevention a detachable shoulder strap
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\*Panel temperature 25°C AM1.5 1kW/m2



## How to Use

## Charging the built-in Battery

1 Connect the solar panel to the battery compartment. Open the cap of one of the input connectors of the battery compartment, and connect the output cable from the solar panel. Tighten up the lock nut at the end of the input connector of the battery compartment clockwise.





2 Face the solar panel towards the sunlight, and charge the built-in battery. To mount the solar panel on the fence or on the ground, s-hooks, fixing ties or fixing pegs can be used. For the most efficient charging, adjust the direction and angle of the solar panel 90 degrees in opposition to the sun rays.





- $\diamondsuit$  Note: The whole area of the solar panel needs to be irradiated. If there is a shaded area on it, the battery cannot be charged efficiently due to low output current.
- 3 You can connect 2 solar panels to VS12-B11NH, VS12-B20LA or VS12-B33LA battery compartment and 2-4 solar panels to VS12-B80LI, VS12-B100LA, VS12-B160LI or VS12-B200LA battery compartment for quick charging.



Caution To avoid overcharging une built in Balley, VS12-B07NH or VS12-B08NH battery compartment. To avoid overcharging the built-in battery, do not connect this panel to

4 To keep away from dust and water, and to avoid short circuit, close the cap of the input connector once you have finished charging the built-in battery.

Powering Appliances

Please read the operating instructions manual of the battery compartment.

#### Maintenance

Clean this product with a dried or dampened cloth. Do not use oil, solvents, petrol or paint thinners for cleaning.

Warranty

2 years from the date of purchase

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