

Violetta Solargear VS12-B230LAA Auxiliary Battery Compartment

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

An auxiliary deep cycle battery compartment for stationary home PV systems designed for powering a broad range of appliances. Composed of a combination of a light yet impact resistant solar panel with MC4 connectors and a high capacity and long life battery compartment for versatility, expandability and weather resistance at low cost in disaster preparedness, leisure and everyday living.

Applications

Expanding the battery capacity up to 8.28kWh by connecting with **VS12-B230LA battery compartment**.

Features

- 2 pcs. of built-in 12V 115Ah deep cycle batteries offer maintenance free and long life.
- Water resistant case and cable glands for outdoor installation.

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 the specified batteries.
- Do not allow metal objects to touch the input/output connectors.
- Do not allow metal objects to touch the terminals of the batteries.
- 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

- Built-in battery: AC DELCO M31MF deep cycle battery X2
- Nominal capacity*: 2760Wh (12V 230Ah)
- Max PV array*: Pm: 580W (390W rated) Voc: 92V
- Max output*: 1200W (VS12-B230LA AC100V inverter outlet)
- : 2.1A (VS12-B230LA DC5V USB)
- : 30A (VS12-B230LA DC12V charge controller terminals)
- Operating temperature (charge)**: -25 - 50°C
- Operating temperature (discharge)**: 0 - 40°C
- (VS12-B230LA AC100V inverter outlet and DC5V USB)
- (VS12-B230LA DC12V charge controller terminals)
- Dimensions (WDXH): 580X450X300mm (excl. protruding parts)
- Weight: approx. 58.0kg (excl. accessories)
- Input & output terminals: twin terminals (wing nuts & poles) X4
- : cable glands with sealing plugs X4
- : 24SQ input & output cables X1.2m
- : 24mm wrench

*20 hr rate

**No freezing

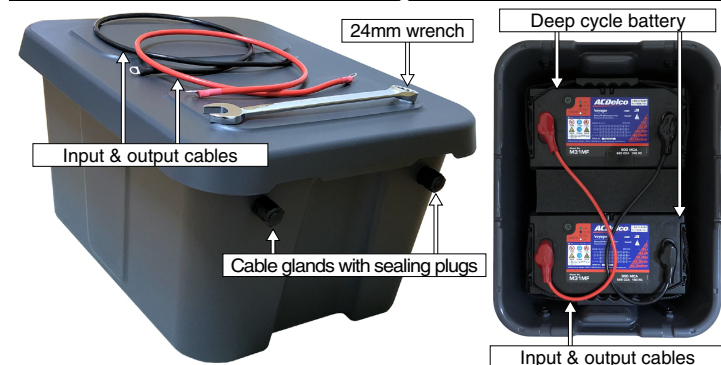
Warranty

- 1 year from the date of purchase

Maintenance

- To protect the built-in battery from over-discharging, charge it immediately when the charge controller indicates low voltage, or charge it at least every 6 month.
- The life of the built-in battery varies widely depending on the operating environment. Replace the battery every 3 - 5 years, or when the operating time becomes notably short.
- Clean this product with a dried or dampened cloth. Do not use oil, solvents, petrol or paint thinners for cleaning.

Feature Diagram



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Design and specifications are subject to change without notice.

Assembled in Japan 01-09-20

How to Use

Connecting with VS12-B230LA battery compartment

- 1 Remove positive (red) terminal cover and wing nut of the battery near cable glands of **VS12-B230LA battery compartment**. Connect positive (red) input cable of the inverter, positive (red) input cable of the AC battery charger and positive (red) input & output cable of this product together. Tighten the wing nut and attach the terminal cover.
- 2 Loosen cable glands of this product and **VS12-B230LA battery compartment** and remove sealing plugs. Pass positive (red) input & output cable through the cable glands and tighten them with 24mm wrench.
- 3 Remove positive (red) terminal cover and wing nut of either battery of this product. Connect 2 positive (red) input & output cables together. Tighten the wing nut and attach the terminal cover.



Make sure to connect all the cables with + terminals and attach covers first. Contacting + - terminals may generate heat or ignite by short circuit.

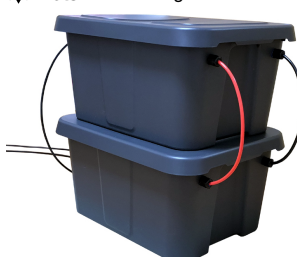


- 4 Remove negative (black) terminal cover and wing nut of the battery near cable glands of **VS12-B230LA battery compartment**. Connect negative (black) input cable of the inverter, negative (black) input cable of the AC battery charger and negative (black) input & output cable of this product together. Tighten the wing nut and attach the terminal cover.
- 5 Loosen cable glands of this product and **VS12-B230LA battery compartment** and remove sealing plugs. Pass negative (black) input & output cable through the cable glands and tighten them with 24mm wrench.
- 6 Remove negative (black) terminal cover and wing nut of either battery of this product. Connect 2 negative (black) input & output cables together. Tighten the wing nut and attach the terminal cover.



Note: Do not stack 3 or more units of this product or **VS12-B230LA battery compartment**. Cases may be damaged by overweight.

Note: Connecting 3 or more units of this product is subject to the fire services act.



Charging the built-in Batteries

- 1 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.

Powering Appliances

- 1 After charging the built-in battery, open the lid of **VS12-B230LA battery compartment** and take out the provided DC-AC inverter.
- 2 To power appliances with AC100V or DC5V input, turn on the provided DC-AC inverter, and connect the appliances to the inverter. You can power up to 2 appliances with AC100V input simultaneously.
- 3 To power appliances with DC12V input, connect the input cables of the appliance to the load terminals of the controller.
- 4 To monitor the status of the solar panel and the battery, refer to the LCD indicators of the built-in charge controller. Please refer to the instruction manual of the controller for details.
- 5 After you have finished powering appliances with AC100V or DC5V input, turn off the provided DC-AC inverter, and disconnect the appliance from the inverter. After you have finished powering appliances with DC12V input, disconnect the input cables of the appliance from the load terminals of the controller.
- 6 To keep away from dust and water, and to avoid short circuit, close the lid of **VS12-B230LA battery compartment**, once you have finished powering appliances.