

Violetta Solargear VS12-B115LAV 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 deep cycle battery compartment for on-vehicle PV systems designed for powering a broad range of appliances. Composed of a combination of an ultra-thin, light, highly efficient and detachable solar panel and a high capacity and long life battery compartment for ultimate portability, reliability, safety, weather resistance and ruggedness at low cost in business, disaster prevention, leisure and everyday living.

Applications

Charging the built-in 12V battery in a vehicle by solar panels on the roof and powering a broad range of appliances through AC100V, DC12V and DC5V output.

Features

- A built-in 12V 115Ah deep cycle battery offers maintenance free and long life.
- A built-in Denryo SA-BA20 charge controller with only 2mA of self-consumption current to protect the uncharged battery from over-discharging and with 5 LEDs for easy monitoring of the status of the solar panel and the battery.
- A 1200W pure sine wave DC-AC inverter with 2 AC100V outlets and a DC5V USB receptacle for powering a broad range of appliances and with an indicator for the voltage of the battery and power consumption of the appliances.
- 2 cargo organizers with hook-and-loop fasteners for overturning prevention.
- 2 input connectors for 2 solar panels for quick charging.
- An auxiliary battery compartment available for doubling the battery capacity.

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 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 vehicles and 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
- Nominal capacity*: 1380Wh (12V 115Ah)
- Max output: * 1200W (AC100V inverter outlet)
- 2.1A (DC5V USB)
- 20A (DC12V charge controller terminals)
- Operating temperature (charge)**: -15 - 60°C
- Operating temperature (discharge)**: 0 - 40°C (AC100V inverter outlet and DC5V USB)
- -15 - 60°C (DC12V charge controller terminals)
- Dimensions (W×D×H): 420X300X360mm (excl. cargo organizers)
- Weight: approx. 31.0kg (excl. cargo organizers)
- Input terminals: Nylon connector X 2
- Output terminals: AC100V inverter outlet X 2
- DC5V USB receptacle X 1
- DC12V charge controller terminals X 1
- Safety features: Denryo SA-BA20 charge controller
- 20A fuse for short circuit prevention
- Schottkey diode for reverse current prevention X 2
- Accessories: Ohashi Sangyo 490 1200W sine wave DC-AC inverter
- STAYHOLD Classic cargo organizer X1
- STAYHOLD Mini cargo organizer X1

*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 (yellow LED), 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



How to Use

Charging the built-in Battery

- Please read the operating instructions manual of the solar panel.

Installing the built-in Battery

- 1 Carry this product by holding the bottom with more than one person and install it at a proper place in the cargo room of a vehicle.

Caution Do not carry this heavy product alone. Overturning it causes liquid leakage from the built-in battery.

Caution Do not install this product outside of a vehicle. The built-in battery may generate heat or ignite by short circuit once get wet.

- 2 Stabilize this product by "STAYHOLD Classic" and "STAYHOLD Mini" cargo organizer.

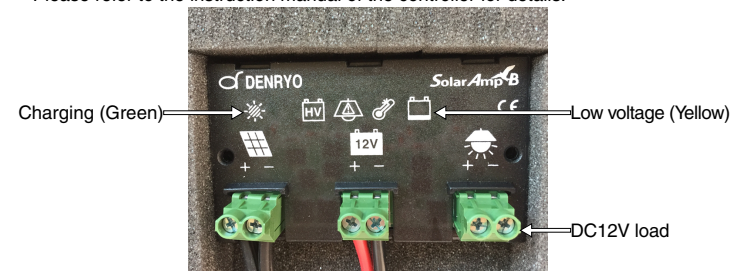


Powering Appliances

- 1 After charging the built-in battery, open the lid 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 LED indicators of the built-in charge controller. A green LED flashes when the solar panel is charging, and turns solid once the battery becomes full. A yellow LED flashes when the battery voltage becomes low, and turns solid once the load disconnects for battery protection. 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 this product, once you have finished powering appliances.
- 7 You can double the battery capacity to connect VS12-B115LAVA auxiliary battery compartment sold separately with this product.



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Design and specifications are subject to change without notice.

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