Frankana®



Item no. 322/773
Manufacturer's no. V0011770

Battery Monitor Smart, black

victron energy

Information

Dimensions	3 x 6.5 cm
Pack size	21 x 21 x 6.5 cm
Net weight	500 g
Gross weight	1.07 kg

Specifications

Colour	black
Type	BMV-712 Smart Black

With integrated Bluetooth

With its built-in Bluetooth, the BMV Smart is ready for the age of the „Internet of Things" (IoT). Most other Victron Energy products also have Bluetooth. Wireless communication between products simplifies the installation of systems and improves performance.

Download the Victron Bluetooth app

Using a smartphone or another Bluetooth-enabled device, you can

- adjust the settings,
- display all important data on one screen,
- view history data and
- update to the latest software when new features are available.

Simple installation

All electrical connections are made using the PCB connector on the current shunt. The shunt is connected to the monitor via a standard RJ12 telephone cable. Included in the scope of delivery: RJ12 cable (10 m) and battery cable with fuse (2 m). No other components are required. A separate front panel for a square or round display, a safety ring for rear mounting

and screws for front mounting are also supplied.

Monitoring the centre point voltage

A damaged cell or a damaged battery can destroy an entire large, expensive battery bank. If batteries are connected in series, a timely warning message can be generated by measuring the centre point voltage. Please also refer to the BMV manual, section 5.2 for further information. We recommend the battery balancer (BBA000100100) to maximise the service life of lead-acid batteries connected in series.

Very low current consumption from the battery

Current consumption: 0.7 Ah per month (1 mA) at 12 V and 0.6 Ah per month (0.8 mA) at 24 V. Lithium-ion batteries in particular have almost no capacity left when they are discharged until they are switched off due to low voltage. After low voltage cut-off, the reserve capacity of a lithium-ion battery is approximately 1 Ah per 1000 Ah of battery capacity. The battery will be damaged if the remaining reserve capacity is removed from the battery. A residual current of 10 mA, for example, can damage a 200 Ah battery if the system is left in a discharged state for more than 8 days.

Bistable alarm relay

Prevents increased current drain in the event of an alarm.

Additional features

- Battery voltage, current, power, ampere-hours used and state of charge
- Remaining runtime at current discharge rate
- Programmable visual and audible alarm
- Programmable relay to switch off non-essential loads or switch on a generator if required
- 500 amp quick-connect shunt and connection set
- Shunt capacity selectable up to 10,000 amps
- VE.Direct communication port
- Stores a wide range of historical data that can be used to assess usage patterns and battery condition
- Wide input voltage range: 6.5 – 70 V
- High current measurement resolution 10 mA (0.01 A)
- Additional input for measuring voltage (of a second battery), temperature or centre point voltage as well as associated alarm and relay settings