

BMV 700



Monitor de baterías Victron Energy BMV 700



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Shunt Victron Energy

Battery 'fuel gauge', time to go indicator, and much more

The remaining battery capacity depends on the ampere-hours consumed, discharge current, temperature and the age of the battery. Complex software algorithms are needed to take all these variables into account.

Next to the basic display options, such as voltage, current and ampere-hours consumed, the BMV-700 series also displays state of charge, time to go, and power consumption in Watts.

The BMV-702 features an additional input which can be programmed to measure the voltage (of a second battery), temperature or midpoint voltage (see below).

Easy to install

All electrical connections are to the quick connect PCB on the current shunt. The shunt connects to the monitor with a standard RJ12 telephone cable. Included: RJ 12 cable (10 m) and battery cable with fuse (2 m); no other components needed.

Also included are a separate front bezel for a square or round display appearance; a securing ring for the rear mounting and screws for the front mounting.

Easy to program

A quick install menu and a detailed setup menu with scrolling texts assists the user when going through the various settings.

New: midpoint voltage monitoring (BMV-702 only)

This feature which is often used in industry to monitor large and expensive battery banks, is now for the first time made available at a low cost, to monitor any battery bank.

A battery bank consists of a string of series connected cells. The midpoint voltage is the voltage halfway along the string. Ideally, the midpoint voltage would be exactly half of the total voltage. In practice, however, deviations will be seen, dependent on many factors such as a different state of charge for new batteries or cells, different temperatures, internal leakage currents, capacities and much more.

Large or increasing deviation of the midpoint voltage, points to improper battery care or a failed battery or cell. Corrective action following a midpoint voltage alarm can prevent severe damage to an expensive battery. Please consult the BMV manual for more information.

Standard features

- Battery voltage, current, power, ampere-hours consumed and state of charge
- Time to go at the current rate of discharge
- Programmable visual and audible alarm
- Programmable relay, to turn off non critical loads or to run a generator when needed.
- 500 Amp quick connect shunt and connection kit
- Shunt selection capability up to 10.000 Amps
- VE.Direct communication port
- Stores a wide range of historical events, which can be used to evaluate usage patterns and battery health
- Wide input voltage range: 9,5 – 95 V
- High current measurement resolution: 10 mA (0,01A)
- Low current consumption: 2,9 Ah per month (4 mA) @12V and 2,2 Ah per month (3mA) @ 24V

BMV-702 additional features

Additional input to measure voltage (of a second battery), temperature or midpoint voltage, and corresponding alarm and relay settings.

BMV 700HS: 60 to 385VDC voltage range

No prescaler needed. Note: suitable for systems with grounded minus only (battery monitor is not isolated from shunt).

Other battery monitoring options

- VE.Net Battery Controller
- High voltage VE.Net Battery Controller: 70 to 350 VDC
- Lynx Shunt VE.Net
- Lynx Shunt VE.Can

SPECIFIATIONS

	BMV 700	BMV 702	BMV 700 HS
Electrical specifications			
Supply voltage range	6,5 to 95 Vcc	6,5 to 95 Vcc	60 to 385 Vcc
Current draw: Back light off	< 4 mA	< 4 mA	< 4 mA
Input voltage range, auxiliary battery	No	6,5 - 95 Vcc	No
VE.Direct communication port		Yes, VE.Direct	
Relay		60 V / 1 A (N/A)	
Battery capacity		20 a 9999 Ah	
Resolución (con shunt 500 A)			
Voltage		± 0,01 V	
Current		± 0,01 A	
Amp hours		± 0,1 Ah	
State of charge		± 0,1 %	
Time to go		± 1 min	
Temperature (0 - 50 °C)	No	± 1 °C / F	No
Current accuracy		± 0,4 %	
Voltage accuracy		± 0,3 %	
Generale specifications			
Temperature		-20 to 50 °C	
Dimensions			
Front		Ø 63 mm	
Front bezel		69 x 69 mm.	
Body diameter		Ø 52 mm	
Body depth		31 mm	
Warranty		5 years	

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