BatteryProtect 48V-100A

With 7-segment LED display: easy to set up

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BatteryProtect BP 48-100



Connector with preassembled DC minus cable (included)

The BatteryProtect disconnects the battery from non-essential loads before it is completely discharged (which would damage the battery) or before it has insufficient power left to crank the engine.

Programming made easy

The BatteryProtect can be set to engage / disengage at several different voltages.
The seven segment display will indicate which setting has been chosen.

A special setting for Li-ion batteries

In this mode the Battery Protect can be controlled by the VE.Bus BMS.

Ultra-low current consumption

This is important in case of Li-ion batteries, especially after low voltage shutdown.
Please see our Li-ion battery datasheet and the VE.Bus BMS manual for more information.

Over voltage protection

To prevent damage to sensitive loads due to over voltage, the load is disconnected whenever the DC voltage exceeds 64 V.

Ignition proof

No relays but MOSFET switches, and therefore no sparks.

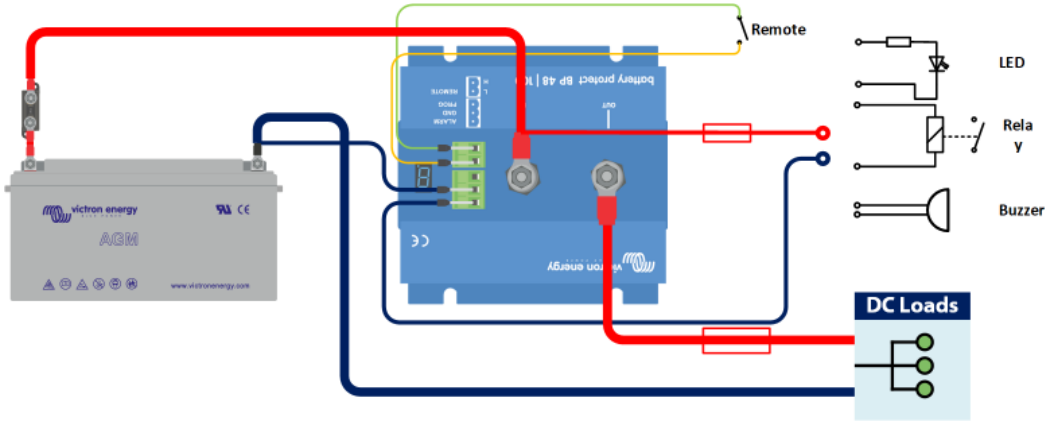
Delayed alarm output

The alarm output is activated if the battery voltage drops below the preset disconnect level during more than 12 seconds. Starting the engine will therefore not activate the alarm. The alarm output is a short circuit proof open collector output to the negative (minus) rail, max. current 50 mA. The alarm output is typically used to activate a buzzer, LED or relay.

Delayed load disconnect and delayed reconnect

The load will be disconnected 90 seconds after the alarm has been activated. If the battery voltage increases again to the connect threshold within this time period (after the engine has been started for example), the load will not be disconnected.
The load will be reconnected 30 seconds after the battery voltage has increased to more than the preset reconnect voltage.

BatteryProtect	BP 48-100
Maximum continuous load current*	100A
Peak current	250A
Operating voltage range	24 –64V
Current consumption	When on: 2 mA When off or low voltage shutdown: 1,5 mA
Alarm output delay	12 seconds
Maximum load on alarm output	50 mA (short circuit proof)
Load disconnect delay	90 seconds (immediate if triggered by the VE.Bus BMS)
Load reconnect delay	30 seconds
Default thresholds	Disengage: 42V Engage: 48V
Operating temperature range	Full load: -40°C to +40°C (up to 60% of nominal load at 50°C)
IP rating	Electronics: IP67 (potted) Connections: IP00
Weight	0,8 kg 1.8 lbs
Connection	M8
Mounting torque	9 Nm
Dimensions (hxwxd)	62 x 123 x 120 mm 2.5 x 4.9 x 4.8 inch
* The BatteryProtect is not designed for reverse currents from charging sources	



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