



The VSR sits between two batteries. When it senses that either battery is being charged (and voltages are high enough) the unit will activate and allow power to flow between the batteries. Power will “know” which way to flow automatically and over-charging between different sized batteries cannot occur. VSR’s introduce no losses into the charging system and smart-electronics prevent relay “chatter” when charging and using power from the auxiliary battery at the same time.

The M-Power Voltage Sensitive Relay (VSR) is the lowest cost method of providing zero loss split charging in light duty and leisure applications.

Quickly and easily fitted, VSR’s are compatible with smaller (non smart-regenerative) alternators, mains chargers and solar systems.

- Bi-Directional, Zero-Loss Split Charging
- Fully Automatic Operation
- ‘Connected’ LED Indicator
- Sealed for damp environments

Model	12V	24V
Nominal Voltage	12VDC	24VDC
Maximum Current (Surge)	140A	100A
Max Alternator Size	70A	50A
Continuous Current	40A	30A
Connect Voltage	13.3V	26.6V
Disconnect Voltage	12.8V	25.6V
Dimensions (L x W x H) mm	67.5 x 67.5 x 53.3	
Weight	2.66 x 2.66 x 2.11	
Standards	CE, UL1107	

Install

Example 1 : Typical 2 battery installation. VSR allows charging from sources connected to either Engine or Aux Battery and keeps them separate during discharge

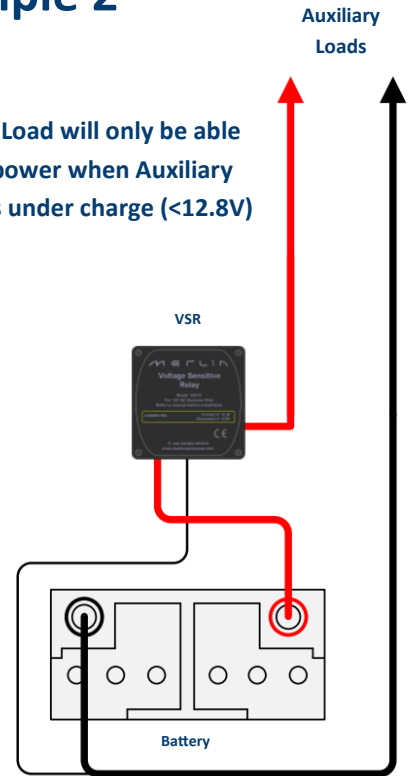
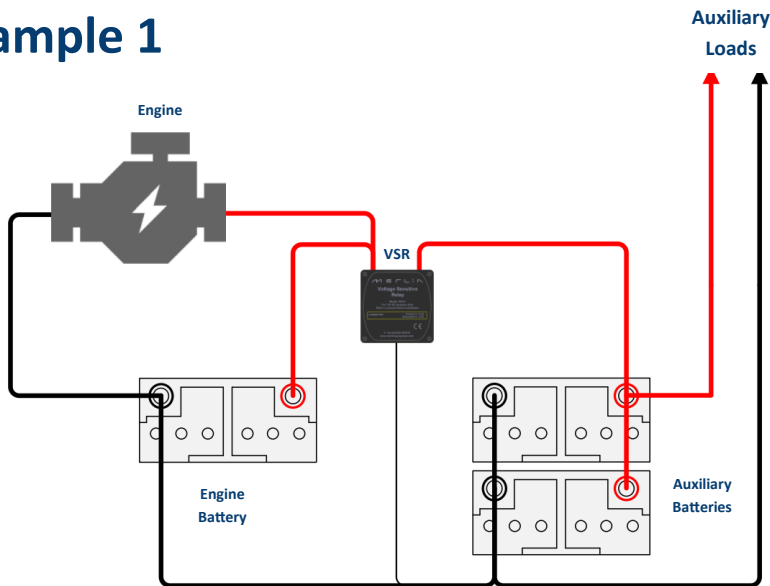
Example 2 : VSR used as a switch for loads that should only be used while the battery is charging

Example 3 : Multiple VSRs can be used to add more and more batteries

Example 2

Auxiliary Load will only be able to draw power when Auxiliary Battery is under charge (<12.8V)

Example 1



Example 3

