

MINI VSR - VOLTAGE SENSITIVE RELAY

- Dual battery charging made easy
- Protects electronics on house battery circuit from engine start up spikes
- Fully automatic

SPECIFICATIONS:

Continuous: 50Amps

Voltage system: 12VDC

Sense: single

Engages: 13.2VDC, 10s delay, LED on

Disengages: 12.8VDC, 10s delay, LED off

VSR Operation:

The Voltage Sensitive Relay (VSR) allows two batteries to be charged at the same time. When the engine is started and the main battery's voltage higher than 13.2 volts, the VSR engages, allowing two battery banks (start and house) to be charged simultaneously. When the combined voltage drops below 12.8 volts (eg. the engine is stopped), the VSR disengages, separating the batteries. This system eliminates the possibility of draining the wrong battery and protects sensitive electronic equipment powered from the house battery from harmful engine start up spikes.

How the VSR works:

Once the main battery's voltage rise to above 13.2VDC, the VSR switches to charge both batteries in parallel, when the combined voltage drops below 12.8VDC, the VSR disengages. Disengagement can occur at idle (low amps out due to slow speed of alternator) or if the house battery is at a low charge. An increase of the engine's RPM will increase the alternator output and hold up the voltage.

Wiring:

