Analogue + Digital Voltage Sensitive Relays

NEW

STERLING POWER

Analogue VSRs - fixed

NEW

Analogue VSRs are the most common VSRs on the market. They simple switch **on** and **off** between two preset voltages (**on** 13.3V and **off** 12.9V (x2 for 24V)) with a 30 second delay.

They work fine for the majority of applications where you simply need to isolate two battery banks and charge the secondary battery (with 0.0V drop) when the engine is running.

They are not ideal in situations where there is a high current draw from the secondary battery and you are using exotic batteries such as AGM, Gel or Lithium where different voltage switching is required. Likewise, if you require unidirecitonal charging the analogue is not suitable, digital is required.

Engage 13.3V
Dis-engage 12.8V
(x2 for 24V model)
Delay 30 sec

8 mm stud connectors

88mm x 90mm x 90mm

Product	Continuous current	Overload ability	Part Nos
80 amp 12v	80 amps	200 amps	VSRA8012
160 amp 12v	160 amps	400 amps	VSRA16012
80 amp 24v	80 amps	200 amps	VSRA8024
160 amp 24v	160 amps	400 amps	VSRA16024

- **IP68 waterproof**
- **Fixed voltage switching**
- **Fixed time switching delay**
- **Digital algorithm switching delay**
- **12 or 24V unit only**
- **Anti relay contact arching protection**
- **High quality brass connections**
- **Relay electrical override ability**
- **1 LED active information**
- **Bidirectional operation only**

Digital VSRs - adjustable

NEW

The Digital VSRs offer the user a wide range of switching voltages ensuring the open circuit voltage is above the discharge voltage of the exotic battery (AGM /Gel/Lithium) unlike that of the analogue.

The digital unit also offers both uni and bidirectional charging. Most VSRs are set to bidirectional charging which allows the voltage at either the input or the output stud to engage or disengage the relay. Unidirectional can be used if you wish to activate the relay from the input stud only.

There is also an algorithm built into the digital relays which prevents unnecessary switching of the relay. The quiescent current of the digital relays is 1mA which works out at about 1A per week.

Preset voltages
on 13.3V
off 13.0V
(x2 for 24V)

8 mm stud connectors

88mm x 90mm x 90mm

- **IP68 waterproof**
- **Digital algorithm switching delay**
- **Auto select 12 and 24V unit**
- **Adjustable switching voltage settings**
- **High voltage disconnect**
- **Low voltage warning**
- **Anti relay contact arching protection**
- **High quality brass connections**
- **Relay electrical override ability**
- **3 LED information rail**
- **Adjustable uni or bidirectional**
- **Reverse polarity protection**

Product	Continuous current	Overload ability	Part Nos
80 amp 12/24v	80 amps	200 amps	VSRB80
160 amp 12/24v	180 amps	400 amps	VSRB160

Magnetic programmability

In the lid of the digital VSR is a magnet which can be used to adjust the settings of the VSR and does not compromise the waterproofing of the product.

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