

# GOT A VOLTAGE PROBLEM?

## interVOLT has the voltage solution...

The new interVOLT SVS is so much more than a mere voltage regulator.

In short, the SVS is a power conditioning device without the galvanic isolation. If you don't require DC-DC isolation then the SVS is the cost effective solution for your application. The SVS is excellent value-for-money when the performance and specification is compared with similar products in the market.

The SVS is a common negative device for 12 and 24VDC transport applications. It will protect your in-vehicle/vessel electronic equipment from a range of voltage issues including dips, spikes, and sustained low and high voltage transients.

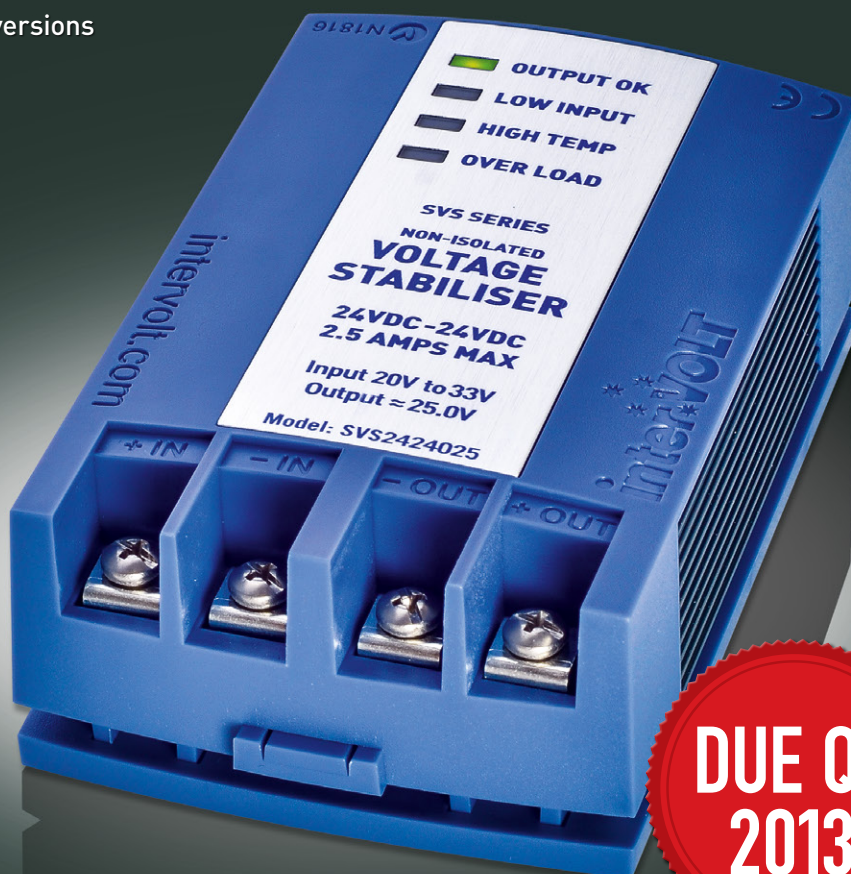
With digital over analogue control the interVOLT SVS series is second-to-none in terms of performance with a high specification in a compact device. It incorporates diagnostics with LED status indication to assist the installer/operator in identifying and troubleshoot issues should they arise. The SVS also boasts automatic features that protect both the device and the equipment connected.

Our new mounting plate design does not increase the footprint which allows the device to be installed in areas such as under dash, under seat, in electrical enclosures, etc, anywhere space is limited.

In short the SVS provides the following benefits which are detailed in our specification overleaf:

- High visibility LED status display indicators
- Available in both 12V and 24V DC versions
- Excellent line and load regulation characteristics
- Highly stable under a range of input conditions
- Suitable for high temperature environments
- Compact in size with unique mounting facility
- Corrosion resistant construction and hardware
- Conformally coated printed circuit board
- Manufacturer's 24 month warranty (conditional)

Comprehensive technical data is available on our website including the installation and operation manual or email [info@intervolt.com](mailto:info@intervolt.com) for a PDF.



**DUE Q2  
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# Non-Isolated Voltage Stabiliser



## SPECIFICATIONS

- **Topology** – switchmode buck/boost common negative connection single inductor circuit.
- **Application** – for 12V and 24V DC in-vehicle/vessel installations.
- **Models**
  - 12VDC Version: SVS1212050
  - 24VDC Version: SVS2424025
- **Input Voltage**
  - 12VDC Version: 8V to 16V (min 11V at start up)
  - 24VDC Version: 16V to 32V (min 22V at start up)
- **Output Voltage**
  - 12VDC Version: 12.5VDC  $\pm 1\%$
  - 24VDC Version: 25.0VDC  $\pm 1\%$
- **Current Rating**
  - 12VDC Version: 5.0 Amps maximum
  - 24VDC Version: 2.5 Amps maximum
- **Standby Current**
  - 12VDC Version: Idle current 70mA @ 13.0V input
  - 24VDC Version: Idle current 70mA @ 26.0V input
- **Conversion Efficiency @ 25°C**
  - 12VDC Version: Up to 93% (13.0Vin @ 5A load)
  - 24VDC Version: Up to 95% (26.0Vin @ 2.5A load)
- **Load Regulation**
  - 12VDC Version: 0.1% up to full load @ 13.0V input
  - 24VDC Version: 0.1% up to full load @ 26.0V input
- **Line Regulation**
  - 12VDC Version: 1.5% of rated output @ 8 - 16V input
  - 24VDC Version: 1.5% of rated output @ 16 - 32V input
- **Output Ripple**
  - 12VDC Version: 10mV rms (nominal) @ 13.0V input, 5A load
  - 24VDC Version: 10mV rms (nominal) @ 26.0V input, 2.5A load
- **Diagnostics** – Supervisory indication including
  - Output status LED
  - Low voltage input LED
  - High temperature LED
  - Output over load/short circuit LED
- **Protection**
  - Input under voltage: Shutdown with auto reset and fault indication
  - High temperature: Shutdown with auto reset and fault indication
  - Overload/Short Circuit: Shutdown with auto reset and fault indication
  - Transient Voltage: Filtering via purpose designed circuitry
- **Environmental Considerations**
  - Operating temperature is -20°C to +50°C
  - Operating humidity ideally  $\downarrow 95\%$  (non condensing)
- **Environmental Protection** – Conformally coated PCBA (tropicalisation)
- **Termination** – Purpose M3 Screw terminal with combination head
- **Construction** – ABS/PC alloy and 6063-T5 anodised aluminium
- **Physical**
  - Footprint: 62mm x 101mm overall
  - Profile: 34mm including mounting plate
  - Weight: 160 grams
- **Conformity** – EMC – AS/NZS CISP 11 and EN55011. Australian C Tick and European CE mark.

