Non-Isolated Switchmode Voltage Converter

#SVC241225G2 / SVC241235G2

www.intervolt.com



DESCRIPTION

24V to 12V DC voltage reducers. Features an unique operator interface, allowing user to control and monitor items such as voltage output and actual current load. Remote shutdown monitor alarm, multi-stage cooling fan. Can be remotely isolated.

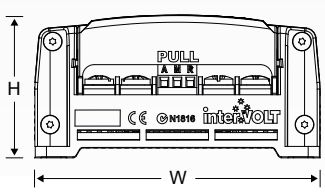
TECHNICAL SPECIFICATIONS

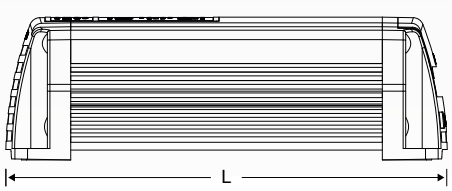
Specification	SVC241225G2 - 25A	SVC241235G2 - 35A
Isolated	• No	• No
Input Voltage	• 20 – 33V DC (will dip to 17V)	• 20 – 33V DC (will dip to 17V)
Output Voltage	• 12.0 – 14.0V	• 12.0 – 14.0V
Continuous Rating	• 25 Amps at 40°C	• 35 Amps at 40°C
Peak Load Rating	• 125% at 40°C over 5 sec	• 125% at 40°C over 5 sec

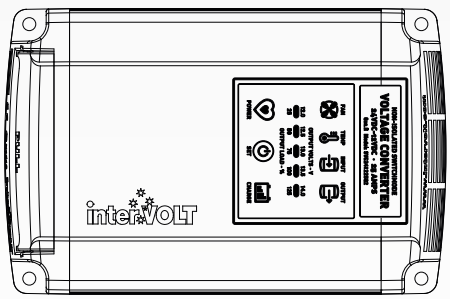
Inter.Load Rating	• <125% (On a 50% duty cycle at 5 min interval)
Output Voltage	• User adjustable 12.0V to 14.0V in 0.5V increments
In Battery Charging Mode	• 2 Stage – boost 14.4V, float 13.6V (+/-0.1V)
Standby Current Draw	• 25 mA nominal
Power Conversion	• 94% Peak (nominally 93%) at 25°C
Output Ripple	• Less than 20 mV Peak to Peak

Operating Temp	• Ideally -25°C to + 50°C
Operating Humidity	• Ideally less than 90%
Materials - Enclosure	• 6063-T5 aluminium dye anodised
Enclosure End Caps	• Injection moulded electrical grade ABS/PC plastic
Diagnostic	• Custom operator interface
Diagnostic Indicator	• Tri-colour LED – monitoring standby mode, load on, short circuit and temperature
Electrical Protection	• Transient Voltage - Filtering – Purpose designed circuit • Overload/Short Circuit shutdown – auto reset • Input Under Voltage shutdown – auto reset • Over Temperature shutdown – auto reset • Negative Disconnect shutdown – auto reset • Output Over Voltage – Internal Fuse – Zener crowbar • Input Reverse Polarity – Internal Fuse – Diode bypass
Termination	• Screw Terminal – M5 with 304 SS Combination screw
Conformity	• EMC – IEC 61204-3 and AS/NZS CISPR 11 G1, CB
Certifications	• EMC – Australian C Tick mark and European CE mark

Part Number	Length (L)	Width (W)	Height (H)	Weight (W)
SVC241225G2	• 170mm	• 110mm	• 55mm	• 750g
SVC241235G2	• 200mm	• 110mm	• 55mm	• 900g







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