

Isolated Switchmode Voltage Converter 24-12 VDC 25 AMPS



The isolated version ensures complete DC - DC electrical isolation, that is, no common connection between the input and output whatsoever. Isolated converters will eliminate line interference, increase electrical safety with improved circuit protection and reduce voltage transients. This means peace-of-mind when connecting sensitive and often expensive, high-end electronic equipment to the output.

* Based on a 50% duty cycle at 5 minute intervals over and above the continuous load rating.

** Battery charger mode only

Input Voltage Range 20 - 33 VDC initial (can dip to 17V during operation)

Contin.Load Rating @40°C 25 Amps Inter.Load Rating @40°C <125%* Peak Load Rating @40°C 125%**

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

Standby Current Draw 85 mA nominal Power Conversion Typically 91%

Efficiency @ 25°C

Output ripple Less than 20 mV Peak to Peak

Operating Temperature 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

Diagnostics 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

Over Load/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

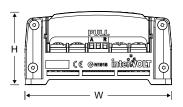
Termination Screw Terminal – M5 with 304 SS Combination screw

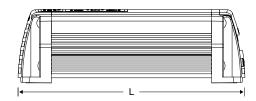
Conformity EMC – IEC 61204-3 and AS/NZS CISPR 11 G1, CB

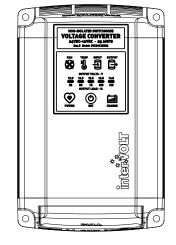
Certification EMC – Australian C Tick mark and European CE mark

ery	MODEL	ISOLATED	INPUT VOLTAGE	OUTPUT VOLTAGE	CONTINUOUS RATING
	SVCi241215G2	2 Yes	20 – 33VDC (will dip to 17V)	12.0 – 14.0V	15 Amps @ 40°C
	SVCi241225G2	2 Yes	20 – 33VDC (will dip to 17V)	12.0 - 14.0V	25 Amps @ 40°C

	Length	Width	Height	Weight
SVCi241215G2	170mm	110mm	55mm	750 grams
SVCi241225G2	230mm	110mm	55mm	1150 grams







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^{**} Based on a peak surge rating of 5 seconds over and above the continuous load rating.