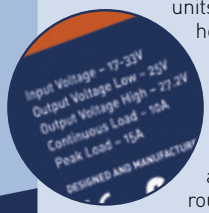
SPCi Series

Isolated Switchmode Power Conditioner

interVOLT SPCi Series power conditioners are a ground-breaking product, designed to address the many issues associated with on-board 12VDC and 24VDC power. They are in fact a converter, stabilizer, isolator and regulator all built into a single innovative package. Like our SVCi converter range, these units feature galvanic isolation with no common connectivity between the input and the output whatsoever. This means peace-of-mind when connecting sensitive and often expensive, high-end electronic equipment to the output. Other benefits include elimination of line interference, greater protection, better regulation and improved performance.

Performance Plus

Designed to deliver under harsh environmental conditions, these units can manage heavy, continuous loads in high ambient temperatures. Generous intermittent and peak ratings round off the performance package.



Designed to Endure

Only non-corrosive, marine grade materials are used in the manufacturing process. Featuring tropicalised circuitry for ultimate protection and longevity. Both robust by design and rugged in construction.

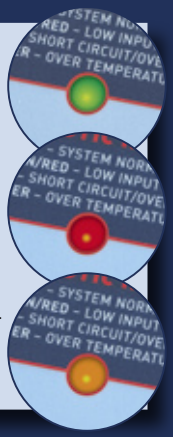
About Conformity

Complies with Australian and European standards for Electro-Magnetic Compatibility (EMC), displaying both the 'C Tick' and 'CE' marks. Supported by independent examination from a certified testing house.

CE
N1816

Self Diagnosing

An industry first featuring dedicated fault finding circuitry. The Diagnostic Indicator assists in troubleshooting many common installation and application problems. A high brightness LED ensures greater visibility.



Safety First

For peace-of-mind, a range of dedicated devices protect both product and the equipment connected to it. Reverse connection, short circuit, output overload, voltage surges, spikes and transients – it's all covered.

Australian Made

interVOLT products are proudly designed, engineered and manufactured in Australia. All products are 100% tested prior to packaging and despatch. The quality is backed by our solid two year guarantee (conditions apply).

Multi-Purpose

A special switch enables user selection of a high or low voltage output for greater control. On the high setting, the unit can be used as a constant voltage, 'float only' battery charger with excellent regulation.

CE N1816

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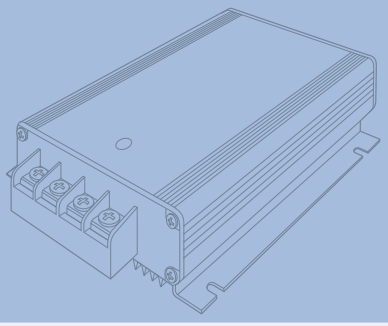


SPCi121210

SPCi121220

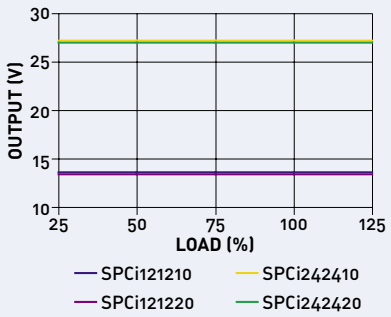
SPCi242410

SPCi242420

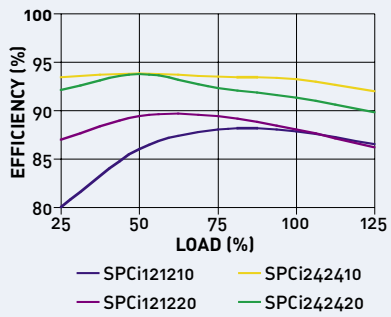
	SPCi121210	SPCi121220	SPCi242410	SPCi242420
Continuous Load Rating @ 25°C	10 Amps	20 Amps	10 Amps	20 Amps
Peak Load Rating @ 25°C*	15 Amps	25 Amps	15 Amps	25 Amps
Input Voltage Range	10 – 16 VDC	10 – 16 VDC	17 – 33 VDC	17 – 33 VDC
Output Voltage – Low Setting	12.5 VDC nominal	12.5 VDC nominal	25.0 VDC nominal	25.0 VDC nominal
Output Voltage – High Setting	13.6 VDC nominal	13.6 VDC nominal	27.2 VDC nominal	27.2 VDC nominal
Length Overall	205mm	275mm	205mm	275mm
Width Overall	136mm	136mm	136mm	136mm
Height Overall	55mm	55mm	55mm	55mm
Weight	1140 grams	1645 grams	1170 grams	1665 grams
Standby Current Draw	50 mA nominal			
Power Conversion Efficiency @ 25°C	Typically 90%			
Output Ripple	Less than 20 mV Peak to Peak			
Operating Temperature	Ideally -25°C to + 40°C			
Operating Humidity	Ideally less than 90%			
Enclosure Material	Marine grade aluminium dye anodised			
Enclosure End Caps	Injection moulded electrical grade ABS/PC plastic			
Diagnostic Indicator	Tri-colour LED – monitoring input voltage, overload, short circuit and temperature.			
Transient Voltage Protection	Filtering – Purpose designed circuit			
Over Load/Short Circuit Protection	Shutdown – Current sensing circuit (automatic reset)			
Input Under Voltage Protection	Shutdown – Voltage sensing circuit (automatic reset)			
Over Temperature Protection	Shutdown – Temperature sensing circuit (automatic reset)			
Negative Disconnect Protection	Shutdown – Voltage sensing circuit (automatic reset)			
Output Over Voltage Protection	Shutdown – Purpose designed dual circuits (manual reset)			
Input Reverse Polarity Protection	Internal Fuse – Diode bypass circuit (not user serviceable)			
Termination	Screw Terminal – 10-32 UNC with 304 SS Phillips screw			
Conformity	EMC – Australian AS2064 and European EN50081-1 / EN50082-1			
Certification	EMC – Australian C Tick mark and European CE mark			

* Based on a surge current load greater than or equal to 10 seconds.

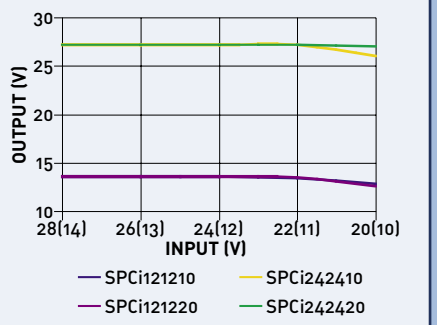
OUTPUT VS LOAD



EFFICIENCY VS LOAD



OUTPUT AT FULL LOAD VS INPUT



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