SVC Series

Switchmode Voltage Converters

ELECTRONIC VOLTAGE CONVERTERS

The success of the SVC range of heavy duty 24-12VDC voltage converters has led to the development of our new compact version for low power applications. The innovative mini series range is targeted at the marine and automotive sectors and is ideal for powering communications, instrumentation and other electronic equipment. The new SVC converters are enclosed in interVOLT's all-new extruded mini series housing which is not only technically superior but practical and stylish as well. Please see overleaf for our list of features and specifications.

The new purpose built extruded housing with moulded end caps is as functional as it is attractive. The new design features effective heat dissipation, easy mounting, compact size and no sharp edges!

purpose designed

Visual indication of the system status provides important information for both users and installers. The tri-colour LED will display an array of symptoms to assist in troubleshooting on-board problems.

self-diagnostics

Only high quality, marine grade components are used in construction. All hardware used in assembly is non-ferrous and the terminals are all plated brass. Circuit boards are tropicalized for ultimate protection.

corrosion resistant

Connection is made safe and sure by using heavy-duty custom designed terminals. The connectors are protected by insulated barriers to prevent inadvertent shorting. All hardware is electrical grade and non-corrosive.

heavy duty terminals

The unique extruded cover closes to protect the terminals and electronics from external objects including fingers! This prevents inadvertent short circuiting, ensuring safety and providing peace-of-mind.

easy access cover

CE N1816

interVOLT

www.intervolt.com

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DIAGNOSTIC INDICATOR

Diagnostics: Unique to interVOLT, is the self diagnosing electronics. This design provides valuable feedback to installers and operators alike. An LED displays the system status and will indicate power on (system normal), low input voltage, over temperature, overload and output short circuit.

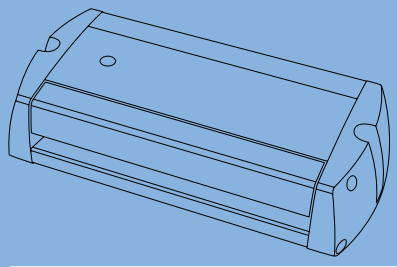
Protection: interVOLT converters feature a range of devices designed to protect the electronics from various connection and application problems. The units are protected against short circuit, overloading and excessive temperature. An internal fuse protects the electronics in the event of component failure.

Performance: a key feature of the interVOLT mini series range is performance. Designed to operate in high ambient temperatures under constant load, the mini series delivers every time. Precise voltage regulation, superior noise filtering and excellent efficiency round off the performance package.

PASS

Conformity: interVOLT converters comply with Australian and European standards for electro-magnetic compatibility (EMC), displaying both the 'C' Tick and 'CE' marks. These approvals are supported by independent examination from a certified testing house. Our Declaration of Conformity is available upon request.

Technology: interVOLT have embraced the latest technology in the engineering and construction of the new mini series converters. Innovative design featuring superior termination, microprocessor control and advanced heatsinking properties combine to produce a truly unique product in an attractive package.



SVC241207

SVC241210

Continuous Load Rating @ 30°C(86°F)	7 Amps @ 13.7VDC	10 Amps @ 13.7VDC
Peak Load Rating @ 30°C (86°F)*	10 Amps @ 13.7VDC	15 Amps @ 13.7VDC
Length Overall	4.725" (120mm)	6.690" (170mm)
Width Overall	3.150" (80mm)	3.150" (80mm)
Height Overall	1.575" (40mm)	1.575" (40mm)
Weight	270 grams (9.55 oz)	370 grams (13.05 oz)
Input Voltage Range	19 – 33VDC	
Output Voltage	13.7VDC nominal (up to the maximum rated load)	
Standby Current Draw	↓20mA	
Power Conversion Efficiency @ 30°C (86°F)	Typically 93%	
Output Ripple	Less than 20mV Peak to Peak	
Operating Temperature	-13°F to +104°F (-25°C to +40°C)	
Operating Humidity	Ideally less than 90%	
Enclosure Material	Marine grade aluminium dye anodised	
End Cap Material	Injection moulded electrical grade ABS/PC plastic	
Terminal Cover Material	Extruded temperature resistant ABS	
Diagnostic Indicator	Tri-colour LED – monitoring input voltage, overload, short circuit and temperature.	
Transient Voltage Protection	Filtering – Purpose designed circuit	
Overload/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)	
Output Over Voltage Protection	Internal Fuse – Zener crowbar circuit (not user serviceable)	
Input Reverse Polarity Protection	Internal Fuse – Diode bypass circuit (not user serviceable)	
Termination	Power – 6-32 UNC H/D screw terminal.	
Conformity	Australian AS/NZS CISPR 11. European EN55011. International CISPR11 and IEC61204-3.	
Certification	EMC – Australian C Tick mark and European CE mark	

interVOLT

www.intervolt.com

MADE IN AUSTRALIA

imtra®

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