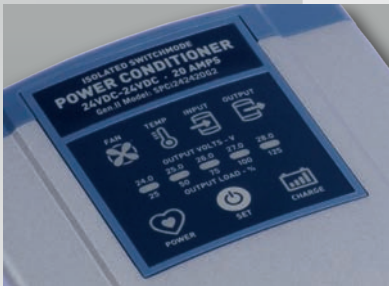


SPCi GEN II Maxi Series



Overview

Introduced in 2003, the interVOLT SPCi Maxi Series power conditioners were ground-breaking. Developed to address the many issues associated with on-board 12VDC and 24VDC power issues, the SPCi Maxi Series are, in fact, a converter, stabiliser, isolator and regulator with the added advantage of galvanic isolation.

Galvanic isolation ensures complete DC - DC electrical isolation, that is, no common connection between the input and output whatsoever. The benefits of using an isolated conditioner include elimination of line interference, increased electrical safety, improved circuit protection and a reduction in voltage transients. This means peace-of-mind when connecting sensitive and often expensive, high-end electronic equipment to the output.

The original Maxi Series Power Conditioners have recently been superseded by the innovative second generation versions. The GEN II range as they are known, are designed on the solid foundation of the former product with a host of new features and benefits. With digital over analogue topology the GEN II range allows the installer/operator to control and monitor various functions and provides valuable feedback on the status of the connected load.

The GEN II is more compact due to multi-speed fan cooling and as a result no longer relies on convection for cooling.

Features

- Unique operator interface for control and monitoring.
- Galvanically isolated input to output – no common connectivity.
- Special mode setting for charging an auxiliary battery (2 stage).
- High resolution voltage output of less than 0.5% under any load.
- Peak efficiency of 92% (better than 90% under most conditions).
- Remote operator control to turn unit on/off with signal power only.
- Multifunction alarm output for fault and pre-emptive warnings.
- Integrated speed and temperature controlled cooling fan.
- Compact design which can be mounted vertically or horizontally.
- Heavy duty termination with separate, removable terminal cover.
- Tropicalisation via conformally coated printed circuit board.
- 24 months warranty (subject to specific terms and conditions).

Power Conditioners

“The SPCi GEN II Maxi Series are, in fact, a converter, stabiliser, isolator and regulator with the added advantage of galvanic isolation”



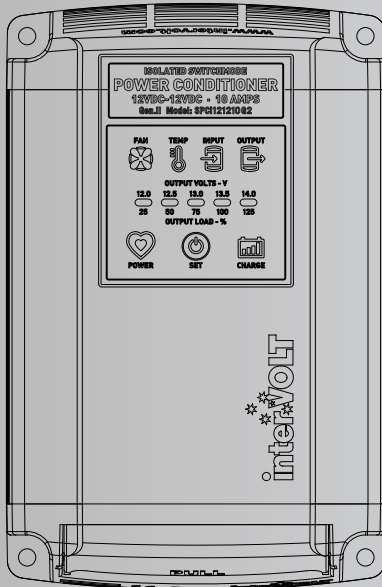
Models

MODEL	ISOLATED	INPUT VOLTAGE	OUTPUT VOLTAGE	CONTINUOUS RATING
SPCi121210G2	Yes	10.5 – 16VDC*	12.0 – 14.0V	10 Amps @ 40°C
SPCi121220G2	Yes	10.5 – 16VDC*	12.0 – 14.0V	20 Amps @ 40°C
SPCi242410G2	Yes	20 – 33VDC**	24.0 – 28.0V	10 Amps @ 40°C
SPCi242420G2	Yes	20 – 33VDC**	24.0 – 28.0V	20 Amps @ 40°C

* will dip to 9V - in power supply mode only

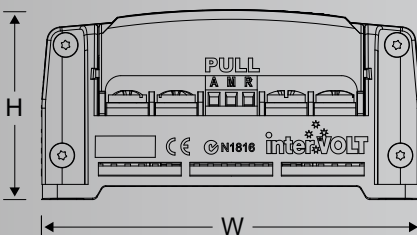
** will dip to 17V - in power supply mode only

Dimensions



	SPCi121210G2	SPCi121220G2
Length	170mm	230mm
Width	110mm	110mm
Height	55mm	55mm
Weight	830 grams	1150 grams

	SPCi242410G2	SPCi242420G2
Length	170mm	230mm
Width	110mm	110mm
Height	55mm	55mm
Weight	830 grams	1150 grams





Overview

Founded on the success of the original SPCi Maxi Series Power Conditioners, the Mini Series range was developed by demand for a smaller device to power and protect low current electrical and electronic equipment in transport applications. Utilising the unique Mini Series housing design, these devices are not only stylish but compact, efficient and installer friendly.

Like the larger Maxi Series the SPCi Mini Series feature DC - DC electrical isolation, that is, no common connection between the input and output whatsoever. The benefits of using an isolated conditioner include elimination of line interference, increased electrical safety, improved circuit protection and a reduction in voltage transients. This means peace-of-mind when connecting sensitive and often expensive, high-end electronic equipment to the output.

The Mini Series Power Conditioners feature a unique, microprocessor controlled diagnostic fault finding indicator. This assists in trouble shooting an array of common installation or connection issues. They are also fully protected by a range of safety features. These protect the device from certain conditions including input reverse connection, under voltage and transients and output overload, short circuit and over voltage. For safety reasons, shutdown functions are designed to automatically reset once the fault condition has been rectified.

Features

- Galvanically isolated input to output – no common connectivity.
- User selectable high or low voltage output setting (slide switch).
- Can be used as a float charger for standard lead acid batteries.
- Unique LED diagnostic indicator to assist with troubleshooting.
- Will operate in high ambient temperatures under continuous load.
- Peak efficiency up to 93% (better than 90% under most conditions).
- Precise voltage regulation and superior noise filtering circuitry.
- Full electronic protection to ensure both longevity and safety.
- Tropicalisation via conformally coated printed circuit board.
- 24 months warranty (subject to specific terms and conditions).

Power Conditioners

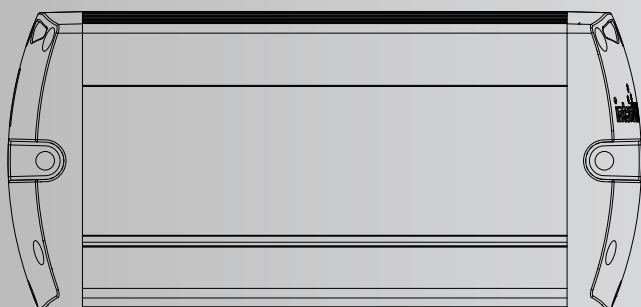
“The SPCi Mini Series are not only stylish but compact, efficient and installer friendly”



Models

MODEL	ISOLATED	INPUT VOLTAGE	OUTPUT VOLTAGE	CONTINUOUS RATING
SPCi121207	Yes	10 – 16VDC	12.5/13.6VDC	7 Amps @ 30°C
SPCi242405	Yes	17 – 33VDC	25.0/27.2VDC	5 Amps @ 30°C

Dimensions



Length	170mm
Width	80mm
Height	40mm

