

BATTERY EQUALIZER

ELECTRONIC BATTERY EQUALIZER

The new SBE range of battery equalizers has been designed to overcome the age-old problem of centre tapping a 24VDC battery bank for a 12 Volt supply. Under normal circumstances tapping a single battery within a 24 Volt bank for a 12 Volt supply will cause an imbalance between the two batteries. The result is reduced battery life due to one battery being over charged and the other under charged. The interVOLT SBE Battery Equalizer will balance or 'equalize' the batteries within the 24 Volt bank ensuring longevity. Additionally the SBE can be used as a stand alone charger to maintain an auxiliary 12VDC battery from a 24 Volt supply.

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 tropicalised 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

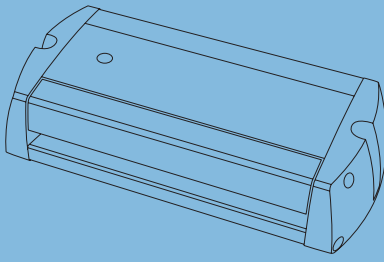
The unique extruded cover closes to protect the terminals and electronics from external objects including fingers! This prevents inadvertent short circuiting, ensuring safety and providing peace-of-mind.

easy access cover



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 standby power, low input voltage, over temperature, overload and output short circuit.



SBE241210



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 equalizers. Innovative design featuring superior termination, microprocessor control and advanced heatsinking properties combine to produce a truly unique product in an attractive package.

Length Overall	170mm (6.690")
Width Overall	80mm (3.150")
Height Overall	40mm (1.575")
Weight	370 grams (13.05 oz)
Continuous Load Rating @ 30°C (80°F)	10 Amps maximum.
Input Voltage Range	23 – 33VDC
Input Voltage Cut-out	22.5VDC
Output Voltage	24VDC ÷ 2 (up to the maximum rated load)
Standby Current Draw	↓20mA
Power Conversion Efficiency @ 30°C (80°F)	Typically 93%
Output Ripple	Less than 20mV Peak to Peak
Operating Temperature	-25°C to + 45°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)
Input Reverse Polarity Protection	Internal Fuse – Diode bypass circuit (not user serviceable)
Termination	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

