



Ebbett Automation Ltd

BATTERY CONVERTER

MILITARY • AUTOMOTIVE • MARINE • INDUSTRIAL



Ebbett NZD JN12773 Battery Converter 1kVA 12-24V DC

- * 35 amp continuous, 40 amp maximum.
- * Automatic low voltage battery disconnect option.
- * Full isolation input-output-ground.
- * Precise regulation, low battery ripple.
- * Portable or permanent mounting.
- * DC power supply / battery eliminator option.

A power link for 12 & 24V systems.

Marine or automotive installations may have 24V auxiliary systems but only a 12V charging system for the start-battery.

The Ebbett step-up battery converter is an easy and efficient way to transfer power from the 12V battery to the 24V battery with a fully automatic charging regime.

Voltage regulation is precise and the current taper sharp.

Resultant secondary battery recovery time is minimised.

The converter can be controlled remotely with a low current on-off-reset switch or interlocked with the vehicle ignition via a relay.

An optional Voltage Sensing Unit (VSU) is fitted to cut off the converter whenever the start-battery ceases to be charged.

This prevents excessive discharge and failure of the vehicle to start.

Features

- * **Constant Voltage**
- * **Current Limited**
- * **Reverse Polarity Protected**
- * **Short-Circuit Protected**
- * **Conservatively Rated**
- * **RFI Suppressed**
- * **Minimal No of Power Devices**
- * **Tolerant of Hostile Environments**

30/3/09 - Specification subject to change without notice

Technical Specification

Voltage:	Input 12V	Output 24V
Current:	Cont 95A	35A
	Max 110A	40A
Weight:	20kg	
Dimensions:	360H x 340W x 190D	
Voltage Regulation:	<0.3V.	
Voltage Ripple:	<1%, 400 Hz.	
Ambient Temp:	-15 to +70 deg C.	
Cooling:	Convection, plus temp controlled fan.	
Operating Humidity:	0-90% RH.	
Input Cable:	1.5m, battery connector grey SB175.	
Output Cable:	1.5m, battery connector red SBE160 + aux.	
Enclosure:	Zintec/mild steel, epoxy powder coated.	
Protection:	Electronic current-limiting. Thermal overload with manual (VSU) reset.	
On-Off-Reset:	MCB ganged for input & output isolation. Connector, low current, remote clean contact.	
Soft Start:	Ramp up approx 10 cycles (50 msec)	
Indication:	LED indication of Inverter On, Overload (Overtemp) and Low Battery Trip.	
Elect Safety:	Manufactured to NZS 6200 and relevant isolating transformer requirements.	
Elect Interference:	RFI emission less than 60 microvolts.	
Factory Settings:	Max current 38A cold (35A hot). Cycled SLA battery charging 28.2V. VSU, converter on 13.3V, off 11.3V.	
Options:	Mounting straps for permanent installation. Remote on-off-reset. Output set for alternative charging regimes. Other voltages & current ratings.	

Applications Guide

Marine house battery systems.

Tractor, truck and trailer units.

Military mobile communications.

Industrial instruments, standby power systems.

Note:

For accurate charging, leads should normally be kept less than 2m.

Reduced current-limit settings should be specified for small sealed batteries.

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