

Installation Manual

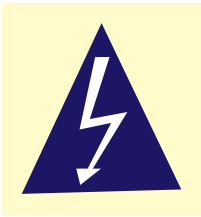
TPC1



Designed & Manufactured

DC - DC / AC-DC Converter - 12Vdc Output

CAUTION



Equipment must be installed & serviced by suitably qualified service personnel in a restricted access area. There are no user serviceable parts inside.

Do not remove module covers

No user serviceable parts inside

General



This power convertor is designed for indoor use only.

The TPC1 is a low profile DC - DC / AC - DC Convertor designed to convert either 24V AC or 20-48V DC to a reliable, clean output voltage between 11-15Vdc (12V nominal) and is rated for 1.5A continuous output.

Note: Input voltage must not exceed 48V DC - permanent damage may result.

This model features output current limiting and thermal shutdown protection with auto recovery.

Connection

Connect input power to terminals marked "Input" (see diagram overleaf). Note that these terminals are not polarity conscious.

Load equipment may be connected to terminals marked "Out". Confirm polarity before connecting.

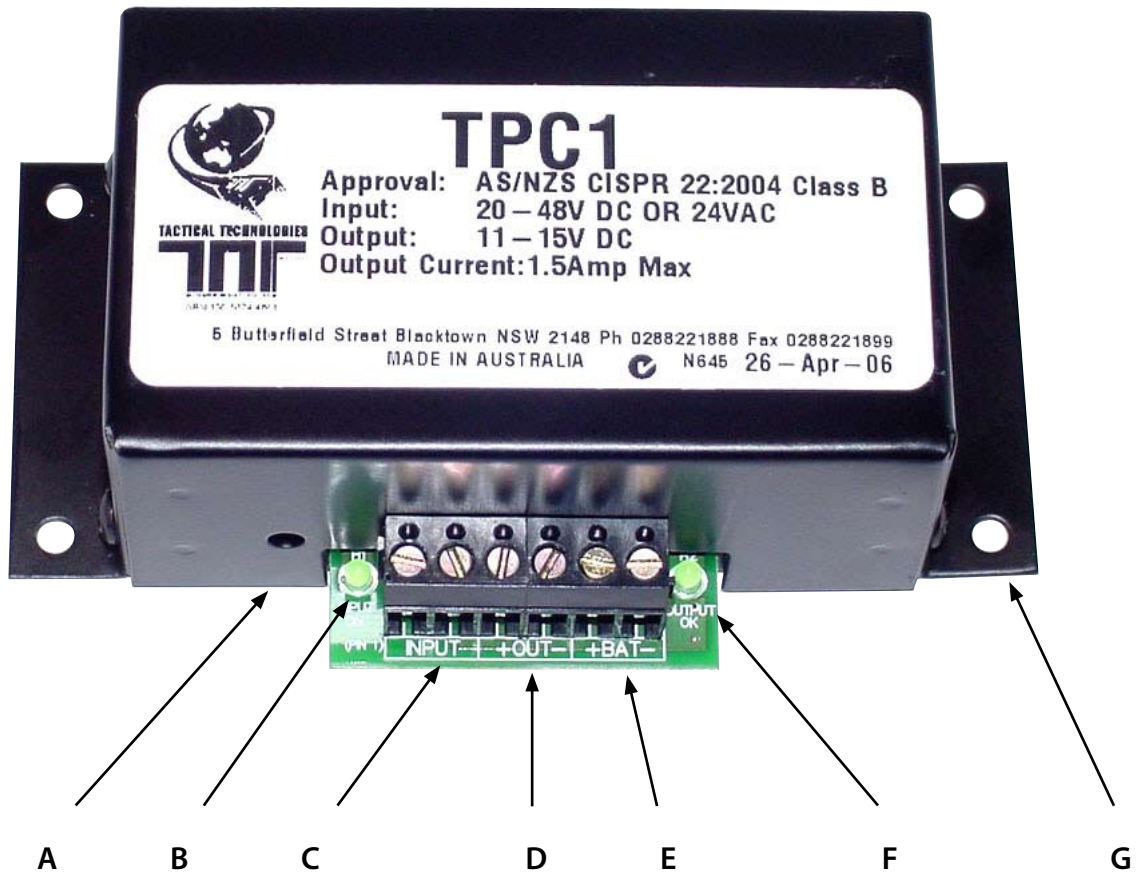
Output voltage is factory set to 12.1Vdc. If Battery operation is required, adjust output voltage to 13.8Vdc (using an insulated screwdriver and digital multimeter). Battery charge current is limited to < 500mA - this should be taken into account when calculating output load. If output load (including battery charging) exceeds 1.5A, TPC-1 will current limit & shut down.

Input and output LED's should be illuminated when operating normally.

There are no fuses or user serviceable components inside the cabinet - return to your supplier or Tactical Technologies for service or repair.



LAYOUT



A	Output Voltage Adjustment (Use an insulated screwdriver to adjust) 11-15Vdc
B	Input OK LED
C	Input Terminals: 18 - 48 Vdc / 24 Vac
D	Output Terminals - 12Vdc 1.5A Maximum
E	Battery Connection (Output voltage must be adjusted to 13.8Vdc - see text)
F	Output OK LED
G	Mounting Holes

Warranty Statement

Tactical Technologies Pty Limited guarantees this product against defective parts and workmanship for a period of twelve (12) months from the date of purchase. If any defect appears during the warranty period, please return the goods to Tactical Technologies Pty Limited freight paid. The goods will be repaired or replaced, then returned.

Tactical Technologies Pty Limited assumes no liability for consequential or indirect damage and accepts no responsibility for repairing damage to products caused by misuse, careless handling or where repairs have been made by others. In the interest of ongoing product development, Tactical Technologies Pty Limited reserves the right to modify, vary or alter the design of this product without written notice.

Specifications

	TPC 1
Input Voltage	9 - 48 Vdc / 9 - 30 Vac
Output Voltage	12 Vdc (11-15Vdc adjustable)
Output Current	1.5A Max.
Output Protection	Current Limiting with Auto Recovery, Thermal Shutdown
Operating Temperature	0° C to 45° C
Soft Start	1 - 2 seconds (typical)
EMC Standards	C-Tick N645 / CISPR11:2004 - Class B
Dimensions	115 W x 65 D x 40 H mm



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