

Installation Manual

TPS24-3DC and TPS24-6DC



TPS24-6DC Shown

 N645

TNT
TACTICAL PTY LTD
TECHNOLOGIES

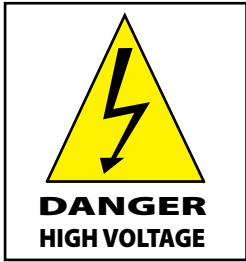
POWERING
YOUR VISION[®]



Designed & Manufactured

24V DC Dual Channel Power Supplies

CAUTION



Dangerous internal voltages exceeding 600 Volts - DO NOT REMOVE COVERS !

Equipment must be installed & serviced by suitably qualified service personnel in a restricted access area.

Dangerous Voltages Inside !

Do not remove covers

No user serviceable parts inside

General



These power supplies are designed for **indoor use only**.

TPS24-DC Dual Channel Power Supplies are available in two models: **TPS24-6DC** and **TPS24-3DC**.

Both models are high performance, extremely low noise, Dual Channel Switch Mode supplies offering 24Vdc at 3A continuous (TPS24-3DC) or 24Vdc at 6A continuous (TPS24-6DC).

When operating from mains, both models provide an output of 24.1Vdc (to power connected equipment) and are equipped with a separate 27.6Vdc battery charging channel.

TPS24-3DC provides 0.7A battery charge current (total output current 3.7A), whilst TPS24-6DC is configured to provide 1.4A charge current to connected batteries (total output current 7.4A).

In the event of mains failure, battery voltage is clamped to 24.1Vdc and instantaneously powers the load - particularly useful for powering voltage sensitive devices such as long range proximity card readers and other "true 24Vdc" equipment. When the mains voltage is restored, batteries are disconnected from the load and recharging commences automatically.

Output short-circuit and overload protection are provided . Removal of the fault / short circuit condition will return the power supply to normal operation (Auto-Reset).

Connection

A high density (10-way) removable terminal block provides the following terminations (*see over the page for a layout*) :

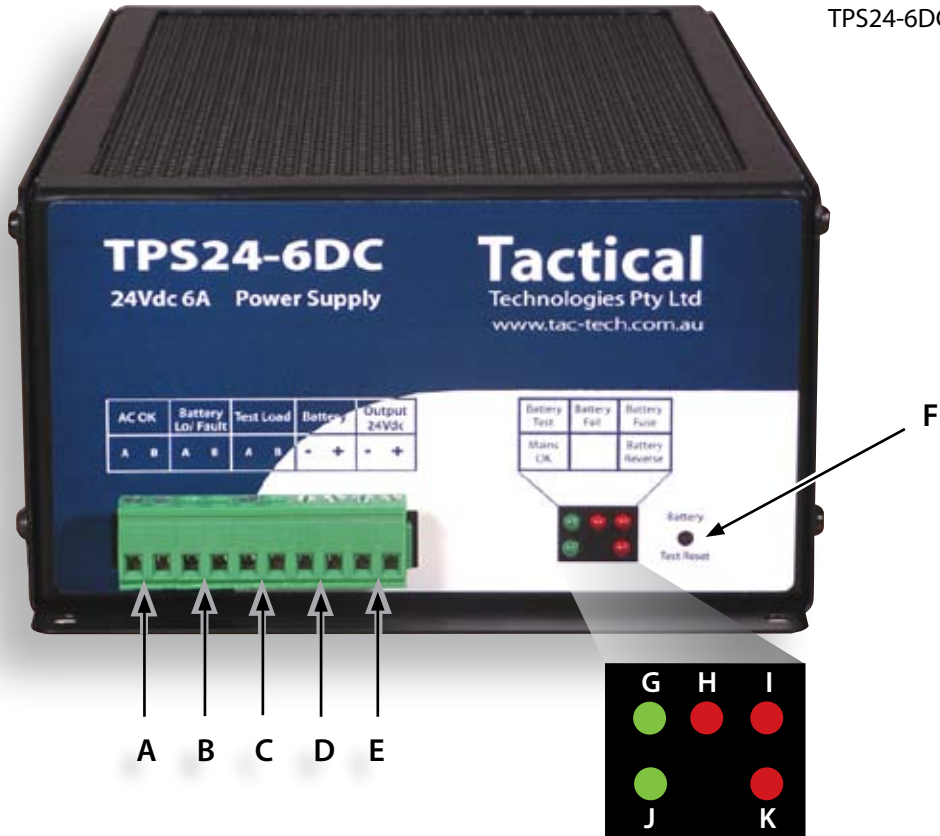
- * 24Vdc Output
- * 27.6Vdc Output for SLA (Sealed Lead Acid) Batteries
- * Battery Test load (not used on this model)
- * AC OK Relay Output
- * Battery Fault/Low Battery Relay Output

Caution when handling batteries:

Exercise care when terminating and connecting batteries. Mishandling or short circuit of SLA batteries can cause severe damage and fire.

LAYOUT

TPS24-6DC Shown



A	AC Mains OK Output (NC / Com)
B	Battery Low / Fault Output (NC / Com)
C	Test Load Terminals - Factory fitted option (not used in this model)
D	- Battery +
E	- Output 24Vdc +
F	Battery Test Reset - option (not used in this model)
G	Battery Test in Progress LED (Green) - option (not used in this model)
H	Battery Test Fail LED (Red ON = Fail)
I	Battery Fuse Fail LED (Red ON = Fail)
J	AC Mains OK LED (Green ON = OK)
K	Reverse Battery LED (Red ON = Fail)
L	Mains ON / OFF Rocker Switch
M	240V IEC Mains Socket
N	Compliance Label



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

	TPS24-6DC	TPS24-3DC
Output Voltage	24.1 Vdc	
Input Current	1.6A @ full load	0.8A @ full load
Output Current	6A Continuous	3A Continuous
Battery Charger	27.6Vdc / 1.4A	27.6Vdc / 0.7A
Low Battery Indicator	1 x SPST relay & Yellow LED	
AC Input Indicator	1 x SPST Relay & Green LED	
Weight	< 2 Kg	
Dimensions	273L x 145W x 80H mm	
Input Voltage	240 V ac (215V - 255V) 50Hz	
Input In-Rush Current	<20A (25° C cold start up)	
Efficiency	80% Typical	
Overload Protection	Constant current limiting, short circuit shutdown, auto recovery	
Load Regulation	< 1% from open to full load	
Line Regulation	< 0.2%	
Output Ripple	<50 mVp-p @ full load	
Working Temperature	0 - 50° C	
Safety Standards	AS NZS 60950.1:2003	
EMC Standards	AS / NZS CISPR 11:2004 Class B (Conducted & Radiated)	
Mounting	4 x 3mm mounting holes	



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THINK ABOUT POWER !**

