

13.5Vdc 2.5A Series



Eco Range

MODELS:

TPS13-2.5DC

SECURITY POWER SUPPLIES



TPS13-2.5DC-TP-SMALL KIT & PDM SHOWN

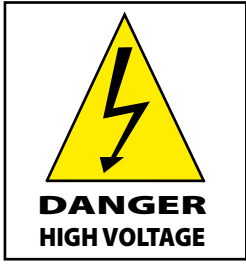
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Installation Manual



CAUTION



Dangerous internal voltages exceeding 400 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 part of the Tactical ECO Range and are designed for **indoor use only**.

TPS13-2.5DC models are high performance, extremely low noise, Dual Channel Switch Mode power supplies offering 13.5Vdc at 2.5A continuous.

When operating from mains, these models provide an output of 13.5Vdc (to power connected equipment) and are configured with a separate 13.8Vdc battery charging channel. Available battery charge current is 700mA @ 13.8Vdc (total supply output current 3.2A)

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).

Model Variants

TPS13-2.5DC

Single 2.5A Output + battery charger, supply only - no cabinet (225L x 120W x 60H)

TPS-SMALL KIT

Small steel enclosure (250W x 310H x 100D mm) will house 12V 7AH SLA Battery and 1 PDM

TPS-MEDIUM KIT

Medium steel enclosure (340W x 436H x 145D mm) will house 12V 17AH SLA Battery and 2 PDM

TPS-LARGE KIT

Large steel enclosure (480W x 470H x 185D mm) will house 12V 55AH SLA Battery and 2PDM

All enclosures are supplied with mounting hardware, tamper switches and battery leads.

Connection

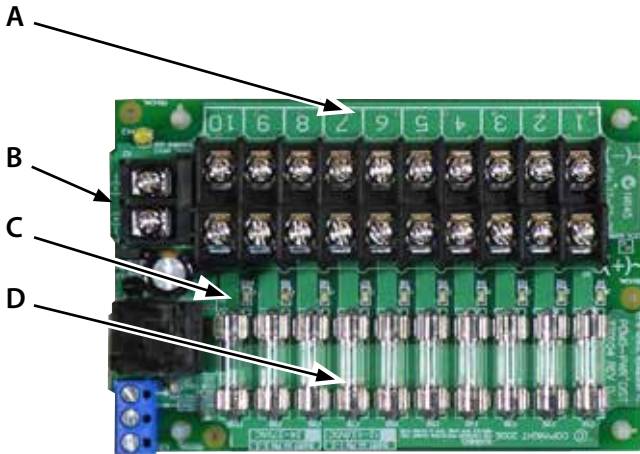
Single Output Models	Multiple Output Models
10-way removable terminal block provides the following: (See over the page for a layout) * 13.5Vdc Output * 13.8Vdc Output for SLA (Sealed Lead Acid) Batteries * AC OK Relay Output (Relay is NC when mains is OK) * Battery Fault / Low Battery Relay Output (SPDT) (This relay is NO when Battery is OK, going NC when Battery voltage drops below approx. 10.5V during AC Fail)	13.5Vdc Output is via individually fused outputs (10 way) 10-way removable terminal block provides the following: (See over the page for a layout) * 13.8Vdc Output for SLA (Sealed Lead Acid) Batteries * AC OK Relay Output (Relay is NC when mains is OK) * Battery Fault / Low Battery Relay Output (SPDT) (This relay is NO when Battery is OK, going NC when Battery voltage drops below approx. 10.5V during AC Fail)

Caution when handling batteries:

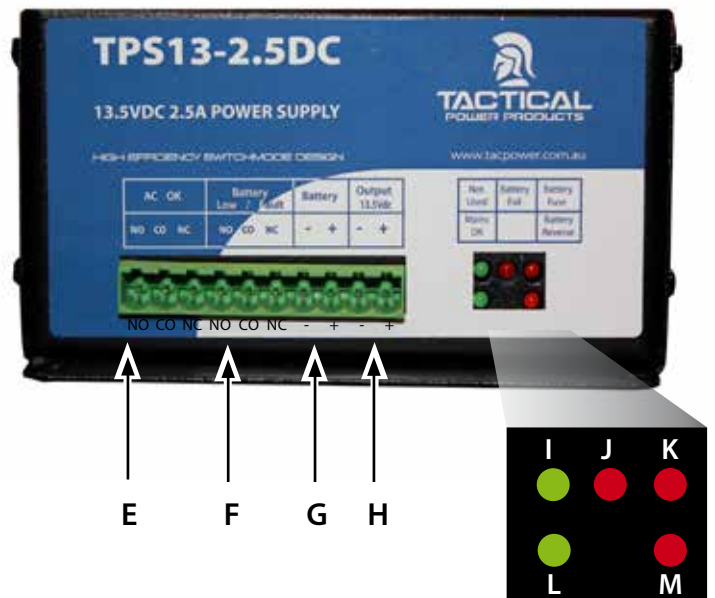
Exercise care when terminating and connecting batteries. Mishandling or short circuit of SLA batteries can cause severe damage and fire.

LAYOUT

Multi-Output Models
(e.g. TPS13-2.5DC-BD10)



TPS13-2.5DC Module Front Face



A	Output Terminals (Multi Output models only)	B	PDM Input (Multi Output models only)
C	Individual Circuit Status LEDs (Multi Output Models)	D	Individual Circuit Fuses (Multi Output models only)
E	AC Mains OK Output (NO / COM / NC)	F	Battery Low / Fault Output (NO / COM / NC)
G	- Battery + (Connect Sealed Lead Acid Battery)	H	- Output 13.5Vdc + (Connect to load or PDM)
I	Not used in this model	J	Battery Test Fail LED (Red ON = Fail)
K	Battery Fuse Fail LED (Red ON = Fail)	L	AC Mains OK LED (Green ON = OK)
M	Reverse Battery LED (Red ON = Fail)	N	240V IEC Mains Socket
O	Compliance / Date of Manufacture Label	~	



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Specifications :

(In the interests of product improvement, Tactical reserves the right to change specifications without notice)

Eco Range®	2.5DC	2.5DC & SMALL KIT	2.5DC-SMALL KIT & PDM-250	2.5DC & MEDIUM KIT	2.5DC-MEDIUM KIT & PDM5-250
Output Voltage	13.5 Vdc				
Output Current	2.5A Continuous				
Output Channels	1	1	10	1	10
Output per Channel	2.5A	2.5A	250mA	2.5A	250mA
Input Voltage	240V ac (+6% / -10%) 50Hz				
Input Current	0.4A @ full load				
Input In-Rush Current	<20A (25 ^o C cold start up)				
Battery Charger	13.8Vdc / 700mA (Max)				
Low Battery Indicator	1 x SPDT relay & Red LED				
AC Input Indicator	1 x SPDT Relay & Green LED				
Weight (Approx)	1.2Kg	4Kg		6Kg	
Dimensions (mm)	226L x 123W x 60H	250W x 310H x 100D		340W x 436H x 145D	
Overload Protection	Hysteretic thermal shutdown with automatic fault recovery				
Load Regulation	< 1% from open to full load				
Line Regulation	< 0.2%				
Output Ripple	25mV p-p @ full load (Typical)				
Working Temperature	0 - 50 ^o C without derating				
Revision	E				
Safety Standards	Safety Standard AS NZS 60950:2015 Certificate of Compliance SAA200277				
EMC Standards	AS/NZS CISPR 11:2004 (Class B Conducted and Radiated)				



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