

13.5Vdc 3.5A ECO Series



MODELS :

TPS13-3.5DC

SECURITY POWER SUPPLIES

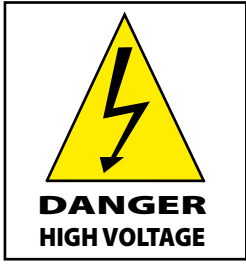
© 2020 The contents of this manual are copyright and may not be reproduced without the written permission of Tactical Power Products Pty Ltd.



Installation Manual



CAUTION



Dangerous internal voltages exceeding 380 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

The TPS-13-3.5A power supply is designed for **ITE and indoor use only**

TPS13-3.5DC model is Dual Channel Switch Mode power supply providing 13.5Vdc at 3.5A continuous load current.

When operating from mains, these models provide an output of 13.5Vdc (to power connected equipment) and are configured with a separate battery charging channel. Available battery charge current is 300mA @ 13.8Vdc (total supply output current 3.8A)

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).

Metal Cabinet Variants

TPS13-3.5DC

Single 3.5A 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

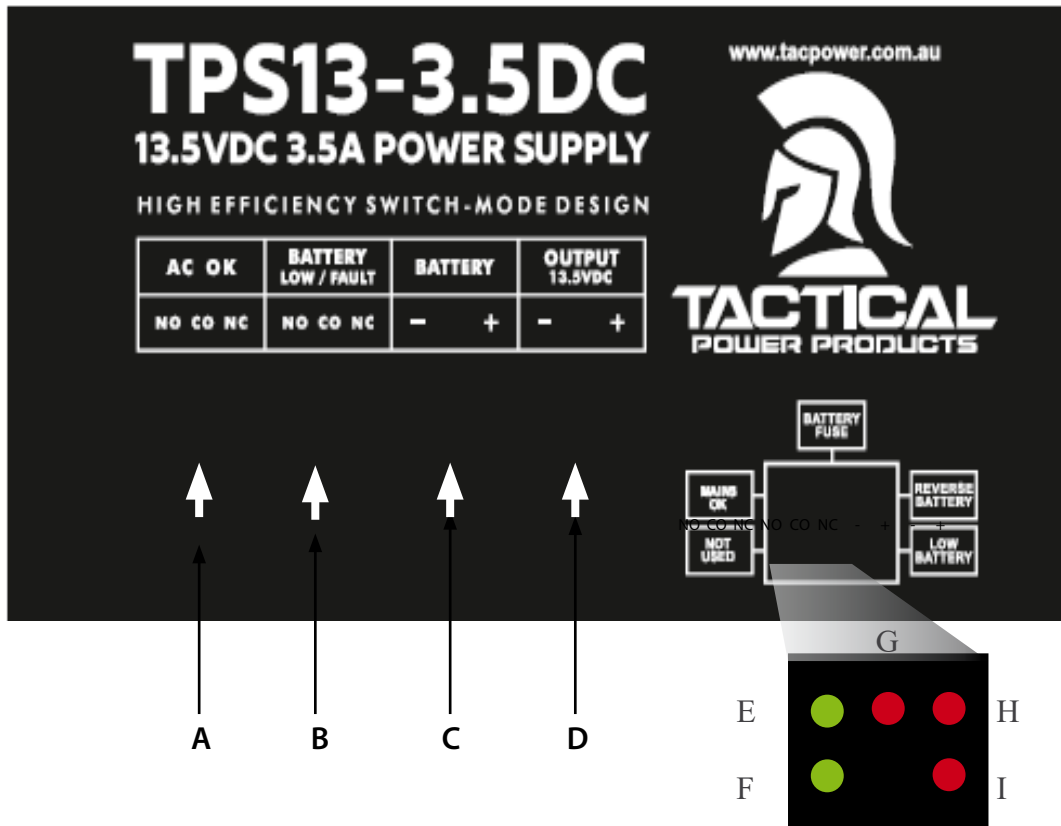
Single Output Models	
10-way removable terminal block provides the following: (See over the page for a layout) * 13.5Vdc Output * 13.5Vdc Charger for SLA (Sealed Lead Acid) Batteries * AC OK Relay Output (Relay is NC when mains is OK) * Battery Fault / Low Battery Relay Output (SPDT) (This relay is NO 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

TPS13-3.5DC Module Front Face



A	AC Mains OK Output (NO / COM / NC)	B	Battery Low / Fault Output (NO / COM / NC)
C	- Battery + (Connect Sealed Lead Acid Battery)	D	- Output 13.5Vdc + (Connect to load or PDM)
E	Mains OK LED (Green ON = OK)	F	Not Used
G	Battery Fuse	H	Reverse Battery LED (Red ON = Fail)
I	Battery Fail Low Battery LED (Red ON = Fail)	J	240V IEC Mains Socket
K	Compliance / Date of Manufacture Label	L	



Rear View



13.5Vdc



3.5A Specifications

Specifications :

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

Eco Range®	3.5DC				
Output Voltage	13.5 Vdc				
Output Current	3.5A Continuous				
Output Channels	1				
Output per Channel	3.5A				
Input Voltage	240 V ac (+6% / -10%) 50Hz				
Input Current	1A @ full load				
Input In-Rush Current	<20A (25 ⁰ C cold start up)				
Battery Charger	13.5Vdc / 300mA (Max)				
Low Battery Indicator	1 x SPDT relay & Red LED				
AC Input Indicator	1 x SPDT Relay & Green LED				
Weight (Approx)	1Kg				
Dimensions (mm)	226L x 123W x 60H				
Overload Protection	Hysteretic thermal shutdown with automatic fault recovery				
Load Regulation	< 1% from open to full load				
Line Regulation	< 0.2%				
Output Ripple	<125mV p-p @ full load (Typical)				
Working Temperature	0 - 40 ⁰ C without derating				
Revision	B				
Safety Standards	Safety Standard AS NZS 60950:1.2015 Certificate of Approval SAA 203368-EA				
EMC Standards	AS/NZS CISPR 32:2015 (Class B Conducted and Radiated)				



www.tacpower.com.au

Securing Your Power Needs®
Now and into the Future...



Tel: 1300-822-769

PO Box 90 Kurrajong NSW 2758

sales@tacpower.com.au