

# 13.5Vdc 3.5A ECO Series



MODELS :

TPS13-3.5DC

SECURITY POWER SUPPLIES

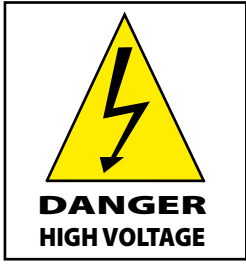
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## Installation Manual



# 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 @ 13.5Vdc (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 ).

The TPS13-3.5DC power supply has been tested to AS/NZS60950.1:2015 electrical safety and AS/NZSCISPR32:2015 Class B EMC in Australia by Austest Laboratories which is a NATA accredited laboratory. A certificate of compliance has been issued by SAA Approvals, Certificate of Compliance SAA203368-EA.

## 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

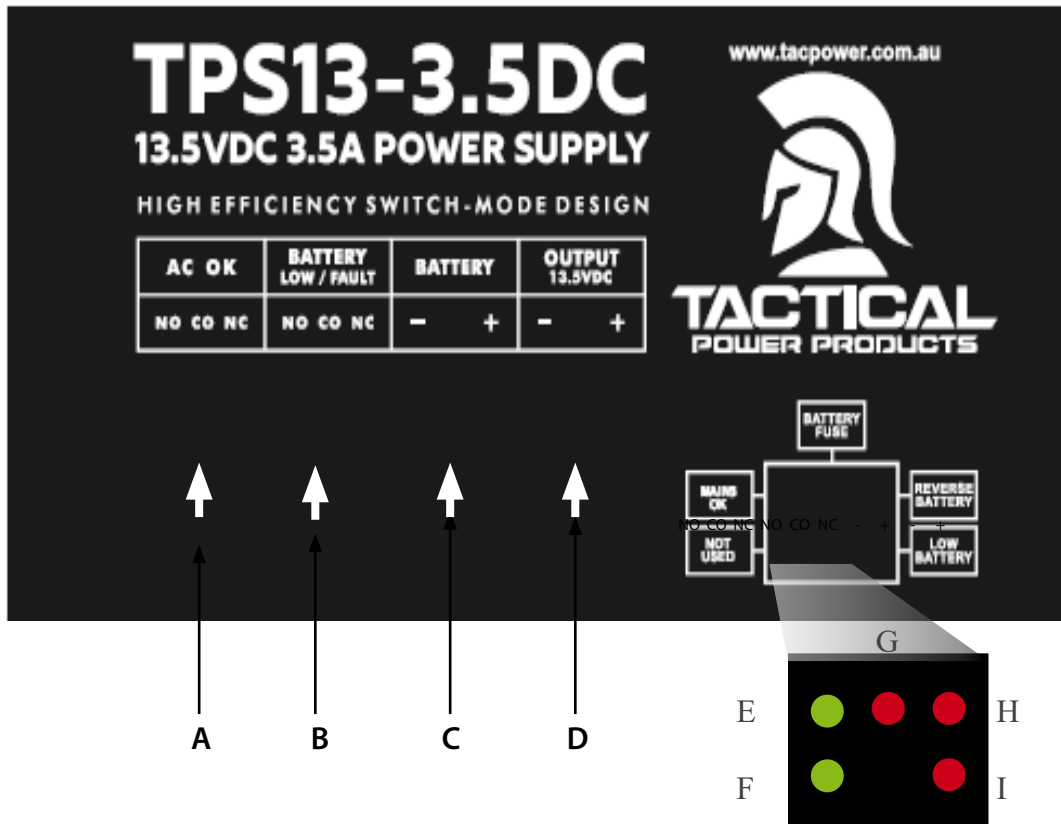
Single Output Models	
10-way removable terminal block provides the following: ( See over the page for a layout )  * 13.5Vdc Output * 13.5Vdc Charger for SLA (Sealed Lead Acid) Batteries * AC OK Relay Output ( <b>Relay is NC when mains is OK</b> ) * Battery Fault / Low Battery Relay Output ( SPDT ) <b>(This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

### 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



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

Rear View



# TPS13-3.5DC

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 the load channel and is fitted with a separate 300mA battery charging channel. Providing a 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 ).



## Specifications :

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

Eco Range	TPS13-3.5DC
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 <sup>0</sup> 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	668g
Dimensions	225 L x 120 w x 60 H
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 <sup>0</sup> C without derating
Revision	B
Warranty	3 Years
Safety Standards	Safety Standard AS NZS 60950.1:2015 Certificate of Compliance SAA 203368-EA
EMC Standards	AS/NZS CISPR 32:2015 ( Class B Conducted and Radiated )



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