

# 12Vdc 5A Series



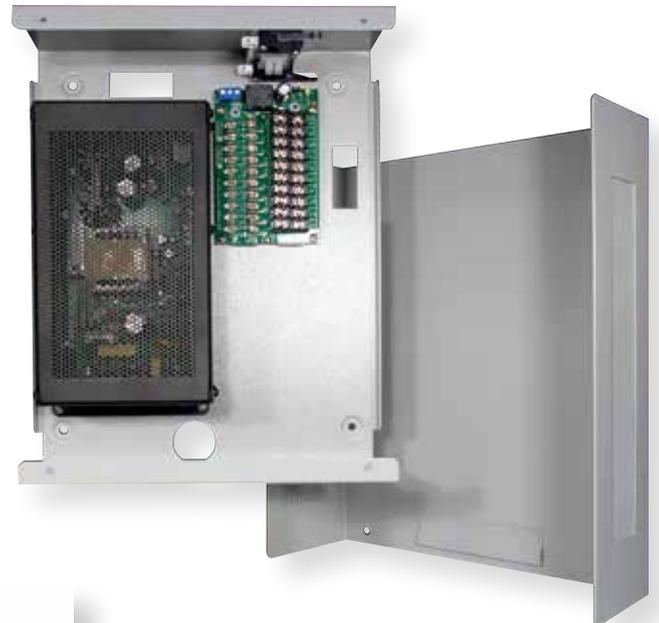
**TACTICAL**  
POWER PRODUCTS

## MODELS:

- TPS12-5DC
- TPS12-5DCB
- TPS12-5DC-BD10
- TPS12-5DC-BX
- TPS12-5DC-BXD10
- TPS12-5DC-BXD20
- TPS12-5DC-ME
- TPS12-5DC-MED10
- TPS12-5DC-MED20

# Eco Range

SECURITY POWER SUPPLIES



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# Installation Manual

DESIGNED & MANUFACTURED

# 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**.

TPS12-5DC models are high performance, extremely low noise, Dual Channel Switch Mode power supplies offering 12Vdc at 5A continuous.

When operating from mains, these models provide an output of 12Vdc ( to power connected equipment) and are configured with a separate 13.8Vdc battery charging channel. Available battery charge current is 1.4A Peak @ 13.8Vdc (total supply output current 6.4A)

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

- TPS12-5DC** Single 5A Output + 1.4A battery charger, supply only - no cabinet ( 225L x 120W x 60H )
- TPS12-5DCB** Single 5A Output + 1.4A battery charger, in small steel enclosure ( 250W x 310H x 100D mm )
- TPS12-5DC-BD10** 10 x 500mA Outputs + 1.4A battery charger, in small steel enclosure ( 250W x 310H x 100 mm )
  
- TPS12-5DC-BX** Single 5A Output + 1.4A battery charger, in medium steel enclosure ( 340W x 436H x 145D mm )
- TPS12-5DC-BXD10** 10 x 500mA Outputs + 1.4A charger, in medium steel enclosure ( 340W x 436H x 145D mm )
- TPS12-5DC-BXD20** 20 x 250mA Outputs + 1.4A charger, in medium steel enclosure ( 340W x 436H x 145D mm )
  
- TPS12-5DC-ME** Single 5A Output + 1.4A battery charger, in large steel enclosure ( 482W x 460H x 185D mm )
- TPS12-5DC-MED10** 10 x 500mA Outputs + 1.4A charger, in large steel enclosure ( 482W x 460H x 185D mm )
- TPS12-5DC-MED20** 10 x 500mA Outputs + 1.4A charger, in large steel enclosure ( 482W x 460H x 185D mm )

## Connection

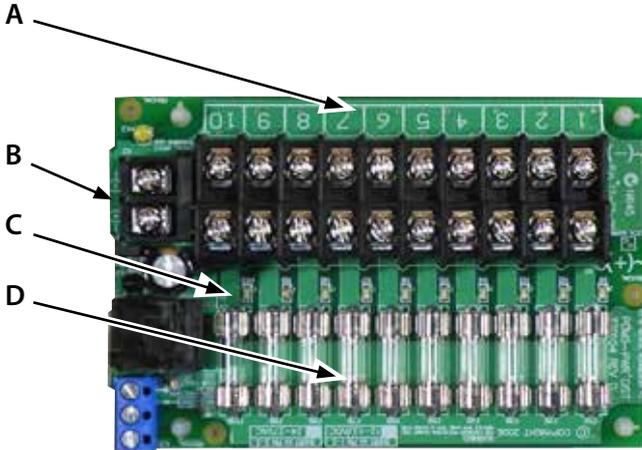
Single Output Models	Multiple Output Models
10-way removable terminal block provides the following: ( See over the page for a layout )  * 12Vdc Output * 13.8Vdc Output for SLA (Sealed Lead Acid) Batteries * AC OK Relay Output ( <b>Relay is NC when mains is OK</b> ) * Battery Fault / Low Battery Relay 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>	12Vdc 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 ( <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:

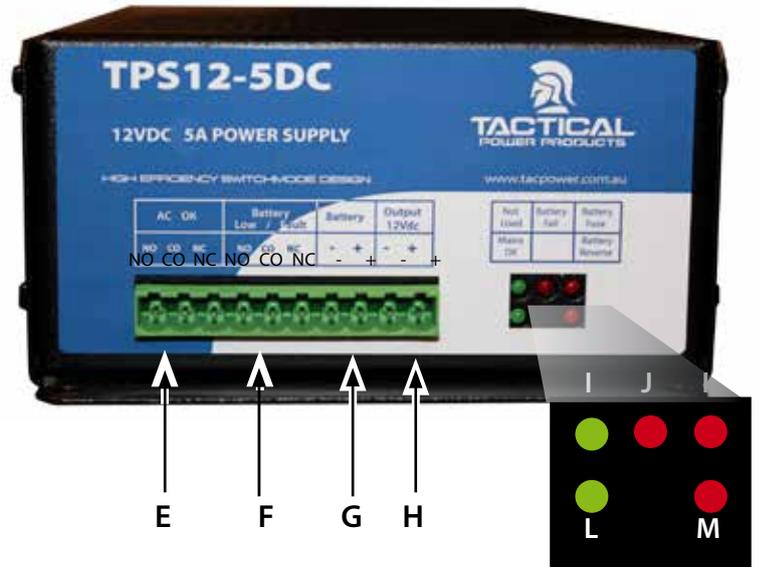
Exercise care when terminating and connecting batteries. Mishandling or short circuit of SLA batteries can cause severe damage and fire.

# LAYOUT

Multi-Output Models  
( e.g. TPS12-5DC-BD10 )



TPS12-5DC Module Front Face



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



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# 12Vdc 5A Series



## Specifications :

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

Eco Range®	5DC	5DCB	5DC-BD10	5DC-BX	5DC-BXD10	5DC-BXD20	5DC-ME	5DC-MED10	5DC-MED20
Output Voltage	12Vdc								
Output Current	5A Continuous								
Output Channels	1	1	10	1	10	20	1	10	20
Output per Channel	5A	5A	500mA	5A	500mA	250mA	5A	500mA	250mA
Input Voltage	240 V ac ( +6% / -10%) 50Hz								
Input Current	0.8A @ full load								
Input In-Rush Current	<20A ( 25° C cold start up )								
Battery Charger	13.8Vdc / 1.4A (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			<14Kg		
Dimensions (mm)	226 x 123 x 60	250W x 310H x 100D		340W x 436H x 145D			482W x 460H x 185D		
Overload Protection	Hysteretic thermal shutdown with automatic fault recovery								
Load Regulation	< 1% from open to full load								
Line Regulation	< 0.2%								
Output Ripple	<50mV p-p @ full load								
Working Temperature	50° C Max								
Safety Standards	AS NZS 60950:2011								
EMC Standards	AS/NZS CISPR 11:2004 ( Class B Conducted and Radiated )								



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