

13.5Vdc 10A Power Series



MODELS :

TPS13-10DC
TPS13-10DC-B
TPS13-10DC-BD10
TPS13-10DC-BD20
TPS13-10DC-ME
TPS13-10DC-MED10
TPS13-10DC-MED20
TPS13-10DC-MED40

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ENGINEERED FOR ACCESS



DESIGNED & MANUFACTURED

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 designed for **indoor use only**.



TPS13-10DC models are high performance, extremely low noise, Dual Channel Switch Mode power supplies offering 13.5Vdc at 10A 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 1.4A @ 13.8Vdc (total supply output current 11.4A)

In the event of mains failure, battery voltage is clamped to 13.5Vdc and instantaneously powers the load - this is particularly useful for powering voltage sensitive loads such as CCTV cameras.. 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).

Model Variants

- TPS13-10DC** Single 10A Output - Supply only - no cabinet (273L x 145W x 80H)
- TPS13-10DC-B** Single 10A Output - Medium steel enclosure (340W x 436H x 145D mm)
- TPS13-10DC-BD10** 10 x 1A Outputs - Medium steel enclosure (340W x 436H x 145D mm)
- TPS13-10DC-BD20** 20 x 500mA Outputs - Medium steel enclosure (340W x 436H x 145D mm)
- TPS13-10DC-ME** Single 10A Output - Large steel enclosure (482W x 470H x 185D mm)
- TPS13-10DC-MED10** 10 x 1A Outputs - Large steel enclosure (482W x 470H x 185D mm)
- TPS13-10DC-MED20** 20 x 500mA Outputs - Large steel enclosure (482W x 470H x 185D mm)
- TPS13-10DC-MED40** 40 x 250mA Outputs - Large steel enclosure (482W x 470H x 185D mm)

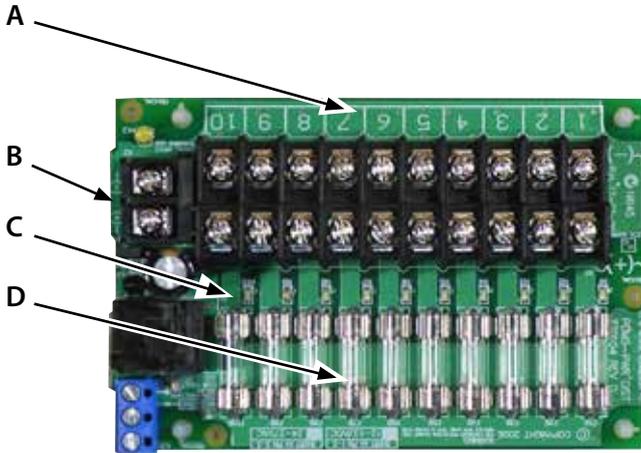
Connection

Single Output Models	Multiple Output Models
10-way removable terminal block provides the following: (See over the page for a layout)	13.5Vdc Output is via individually fused outputs (10, 20 or 40)
<ul style="list-style-type: none"> * 13.5Vdc Output * 13.8Vdc Output for SLA (Sealed Lead Acid) Batteries * Battery Test load (not used on this model) * AC OK Relay Output (SPST) * Battery Fault/Low Battery Relay Output (SPST) 	10-way removable terminal block provides the following: (See over the page for a layout)
	<ul style="list-style-type: none"> * 13.8Vdc Output for SLA (Sealed Lead Acid) Batteries * Battery Test load (not used on this model) * AC OK Relay Output (SPST) * Battery Fault/Low Battery Relay Output (SPST)

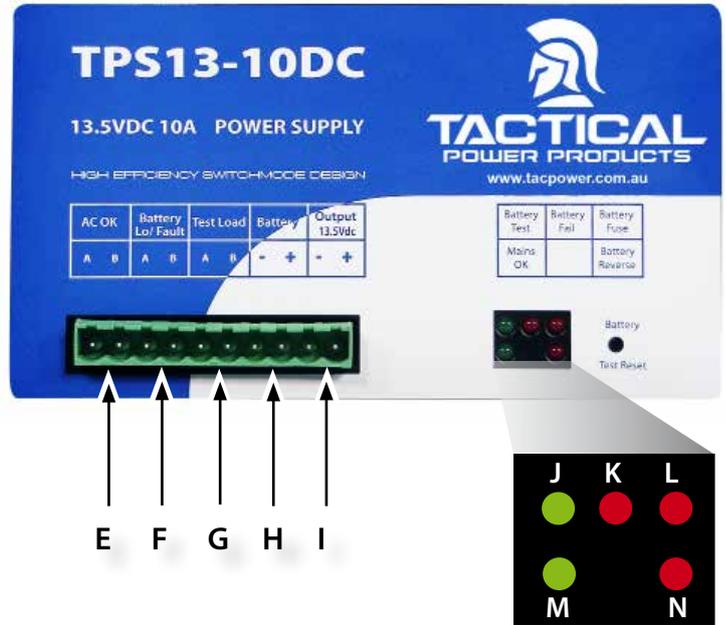
Caution when handling batteries:

LAYOUT

Multi-Output Models
(e.g. TPS13-10DC-BD10)



TPS13-10DC Module Face



A	Output Terminals (Multi Output models only)	B	PDM Input (Multi Output models only) - " 1 " below
C	Individual Circuit Status LEDs (Multi Output Models)	D	Individual Circuit Fuses (Multi Output models only)
E	AC Mains OK Output (COM / NC)	F	Battery Low / Fault Output (COM / NC)
G	Not used in this model	H	- Battery + (Connect Sealed Lead Acid Battery)
I	- Output 13.5Vdc + (Connect to load or PDM)	J	Not used in this model
K	Battery Test Fail LED (Red ON = Fail)	L	Battery Fuse Fail LED (Red ON = Fail)
M	AC Mains OK LED (Green ON = OK)	N	Reverse Battery LED (Red ON = Fail)
O	240V IEC Mains Socket	P	Compliance / Date of Manufacture Label



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13.5Vdc 10A Series

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Specifications :

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

	10DC	10DC-B	10DC-BD10	10DC-BD20	10DC-ME	10DC-MED10	10DC-MED20	10DC-MED40
Output Voltage	13.5Vdc							
Output Current	10A Continuous							
Output Channels	1	1	10	20	1	10	20	40
Output per Channel	10A	10A	1A	500mA	10A	1A	500mA	250mA
Input Voltage	240 V ac (+6% / -10%) 50Hz							
Input Current	1.4A @ full load							
Input In-Rush Current	<20A (25 ⁰ C cold start up)							
Battery Charger	13.8Vdc / 1.4A							
Low Battery Indicator	1 x SPST relay & Red LED							
AC Input Indicator	1 x SPST Relay & Green LED							
Weight	<2Kg	<5Kg	<5Kg	<5Kg	<12Kg	<12Kg	<12Kg	<12Kg
Dimensions	273L x 145W x 80H	340W x 436H x 145D mm			482W x 470H x 185D mm			
Efficiency	83% at rated load							
Overload Protection	Constant current limiting, short circuit shutdown, auto recovery							
Load Regulation	< 1% from open to full load							
Line Regulation	< 0.2%							
Output Ripple	25mV p-p @ full load							
Working Temperature	0 - 50 ⁰ C							
Revision	B							
Safety Standards	AS NZS 60950:2011							
EMC Standards	AS/NZS CISPR 11:2004 (Class B Conducted and Radiated)							



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