

# Installation Manual

## RPS13-20DC-D40



✓ N645

Australian Model - 240V ac 50Hz

13.5V DC 20A Rack Power Supply



POWERING  
YOUR VISION<sup>®</sup>



Designed & Manufactured

# CAUTION



Equipment must be installed & serviced by suitably qualified service personnel in a restricted access area. There are no user serviceable parts inside.

***Dangerous Voltage Inside !***

***Do not remove covers***

***No user serviceable parts inside***



This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

## Installation Requirements

These power supplies are designed for indoor use only.

The power supply should be installed using the mounting points on the front face with the case suspended, to allow air to flow freely around the case. Avoid locations where moisture, high humidity or excessive heat variations are present.

## Connection to Load Equipment

Load equipment may be connected via the heavy-duty removable screw terminal blocks on the rear panel (see overleaf).

RPS13-20DC-D40 provides 40 individually short circuit protected outputs. Each output features a solid state polyswitch with a current rating of approx 0.5A continuous. Remember to consider inrush / start-up current when connecting load devices. Outputs will shutdown if short circuited or if continuous current draw exceeds 0.5A approx.

Front panel LEDs show the status of each output - Green for OK and Red if faulty (over current / short circuit). RPS13-20DC-D40 features a Common Fault Relay for each group of 10 outputs. This relay will trip and its corresponding front panel LED will light if any one of the outputs within its group suffers a fault condition.

When the fault condition is rectified (short circuit / over current removed) the output will automatically reset, its corresponding LED will change from Red to Green, the Common Fault Relay will restore and its front panel LED will extinguish.

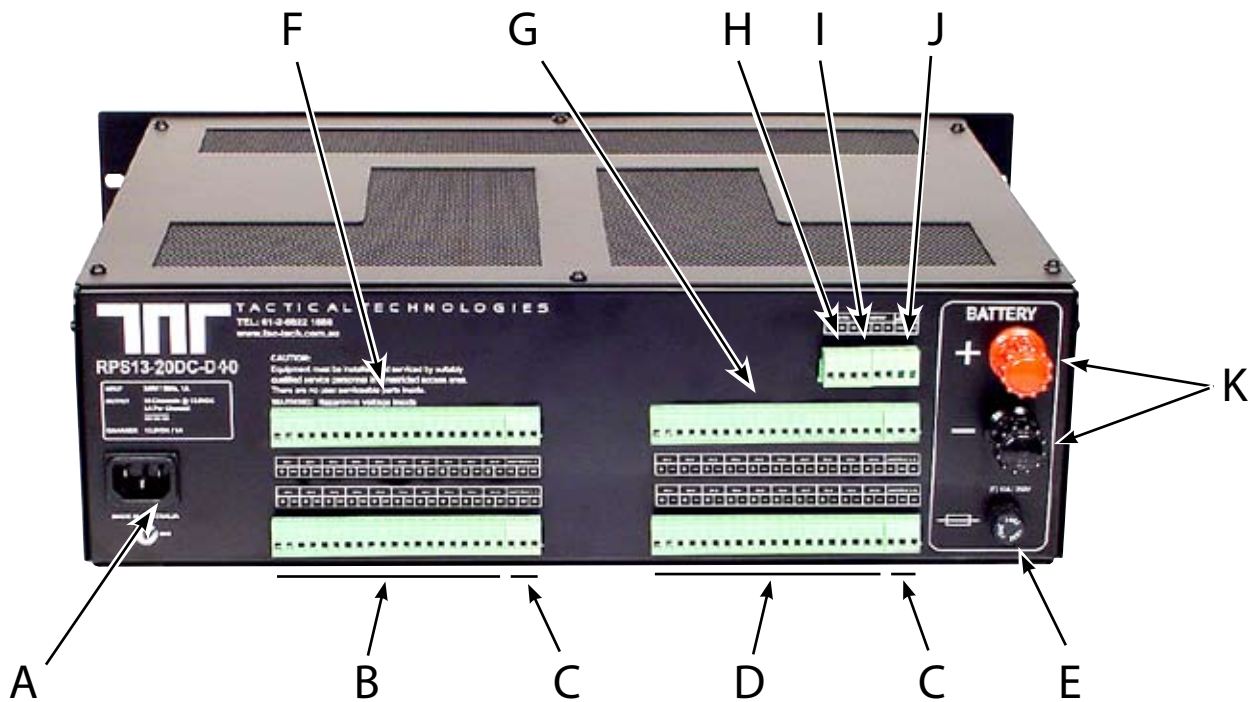
Note that there are no fuses or other user serviceable parts inside this power supply. Please return to Tactical Technologies for service, maintenance or repair.

## Connecting a Battery

- Use only good quality 12V Sealed Lead Acid Batteries.
- Typical battery capacity is 12V 17Ah to 12V 55Ah - other battery capacities may be used, but recovery time after discharge may vary.
- Take care to observe polarity when connecting battery.
- By default, Low Battery Disconnect is activated - if battery voltage falls below approx. 10V during a mains failure, battery will be disconnected from load to prevent potential irreversible battery damage.
- Low Battery Disconnect may be de-activated by placing a link in the "Battery Disconnect" terminals on the rear panel. Load will continue to be powered until battery is exhausted - note that load equipment operation may become unstable at low voltages.

# LAYOUT

## Rear View



<b>A</b>	IEC Power Socket (240Vac Input)
<b>B</b>	Channel Outputs 1-10 (0.5A ea approx)
<b>C</b>	Common Fault Relay Output (NC - COM - NO)
<b>D</b>	Channel Outputs 11-20 (0.5A ea approx)
<b>E</b>	Battery Fuse 10A (Approved type: F10A / 250V)
<b>F</b>	Channel Outputs 21-30 (0.5A ea approx)
<b>G</b>	Channel Outputs 31-40 (0.5A ea approx)
<b>H</b>	AC Fail Relay Output
<b>I</b>	Low Battery Relay Output
<b>J</b>	Battery Disconnect Link
<b>K</b>	Battery Connection Terminals
<b>L</b>	Output Channel Status LED's (Green=OK Red = Fault)
<b>M</b>	Common Fault Output Status (No LED = OK Red = Fault)
<b>N</b>	Battery Fuse, Battery Reversed, Low Battery & AC Fail LED's (No LED = OK Red = Fault)
<b>O</b>	Illuminated AC Mains ON / OFF Switch



## Front View

# Troubleshooting

Please confirm the following before requesting assistance :

Check mains voltage at wall socket

Illuminated Power Switch on front panel switched on

LED Circuit Status LED's are Green (if Red, remove cabling and rectify cable / connected equipment fault)

## Warranty Statement

Tactical Technologies Pty Limited guarantees this product against defective parts and workmanship for a period of twelve (12) months from the date of purchase. If any defect appears during the warranty period, please return the goods to Tactical Technologies Pty Limited freight paid. The goods will be repaired or replaced, then returned.

Tactical Technologies Pty Limited assumes no liability for consequential or indirect damage and accepts no responsibility for repairing damage to products caused by misuse, careless handling or where repairs have been made by others. In the interest of ongoing product development, Tactical Technologies Pty Limited reserves the right to modify, vary or alter the design of this product without written notice.

## Specifications

	RPS13-20DC-D40
Input Voltage	240V ac (185V - 264V ac) / 50Hz
Input Current	2A (RMS)
Output Voltage	13.5V dc
Output Current (Total)	20A (22A inc Battery Charger)
Output Channels	40
Output per Channel	0.5A (500mA approx)
Battery Charger	22A Approx.
DC Output Indication	Output Channel Status LED's    Green = OK    Red = Fault
Weight	< 7Kg
Cabinet Dimensions	427W x 360D x 128H mm
Face Dimensions	483W x 132H mm
Overload Protection	Over current limiting, short circuit protection, auto recovery
Working Temperature	0 - 40° C
Safety Standards	AS/NZS 60950.1:2003
EMC Standards	AS/NZS CISPR 22:2006 Class A (Conducted and radiated)
Mounting	19" rack mount flange - 4 x M8 mounting holes



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THINK ABOUT POWER !**

