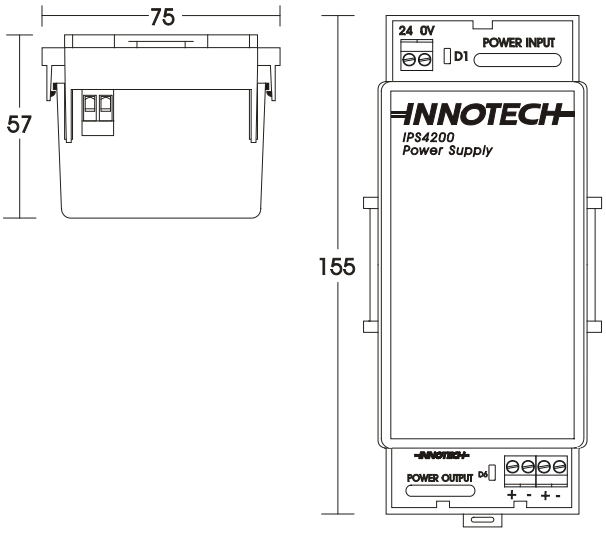
Models:
IPS4200: 12V/24VDC Power Supply

IPS4200
Power Supply

Overview
The Innotech Power Supply (IPS4200) is a power regulator that produces a fixed DC voltage output of nominal 12V or 24V at up to 12W.
It is intended for use in switchboards.



Specifications

Power Supply
12VDC Output Configuration
- 18VDC to 38VDC input OR
- 20VAC to 28VAC input

24VDC Output Configuration
- 28VDC to 38VDC input OR
- 22.5VAC to 28VAC input

Maximum DC Power:	12W
Efficiency Typical:	80%
Recommended Transformer Rating:	50VA or greater

Output
- 12VDC @ 1A, adjustable from 10V-14VDC
- 24VDC @ 0.50A, adjustable from 21V-25VDC
- Worst case 130mVRMS ripple on output

Output Protection
- This power supply is overload protected.
- Should the power supply be overloaded or shorted, one or both green 'Power Good' (D1 & D6) indicator lights will turn off depending on the condition. Output power to the load is terminated.
- To reset the power supply:
  a. Turn power off.
  b. Remove the overload condition and disconnect the load.
  c. Turn power back on. The 'Power Good' indicators should now be lit.
- The load can be reconnected.

Temperature Ratings
Storage:	-20°-70°C non-condensing
Operating:	-10°-45°C non-condensing

Enclosure
The Innotech Variable Power Supply is enclosed in a rectangular case made from flame retardant ABS plastic in accordance with IEC695-2-1 (HD444-2-1) as of EN6335-1, A2 and IEC707 (AS/NZS2420) listed under UL94.

Colour:	Grey
Mounting:	DIN Rail Mounting

Application
The Innotech power supply is designed to provide pre-regulated non-isolated DC power for auxiliary units, such as transducers and controllers, used in air conditioning control systems.

Features
- Jumper selectable 12VDC or 24VDC output
- Output is fine adjustable
- Visual 'Power Good' indication
- Short circuit protected
- The Innotech enclosure saves space and reduces installation time
- Two parallel output terminals for easier wiring

Approved
- Conforms to RCM Labelling requirements

Installation

Terminal Identification

24	Vin
0V	Common
+	Vout (12VDC or 24VDC)
-	Common

Wiring

The operating voltage must meet the requirements of Safe Extra Low Voltage (SELV) to EN60730. The transformer used must be a Class 2 safety transformer in compliance with EN60742 and be designed for 100% duty. It must also be sized and fused in compliance with local safety regulations.

- DO NOT connect 240VAC to any terminals
- Earth one side of the 24VAC at the transformer
- Connect the EARTHED side of 24VAC to input terminal [0V]
- DO NOT connect 24VAC to output terminals

Din Rail Mounted Enclosure

The INNOTECH enclosure is designed to provide tight positive locking to varying thicknesses of DIN rail. When fitting to thick DIN rail it may be necessary to remove the packing tabs on the back of the base.
Lugs on each side of the base ensure that correct spacing is maintained between units on the same DIN rail.
Ensure the power supply is installed vertically to ensure proper ventilation.

Voltage Selection And Fine Adjustment

The Innotech power supply is factory set to 12VDC output.
Should the voltage setting require adjustment, please follow the instructions below.

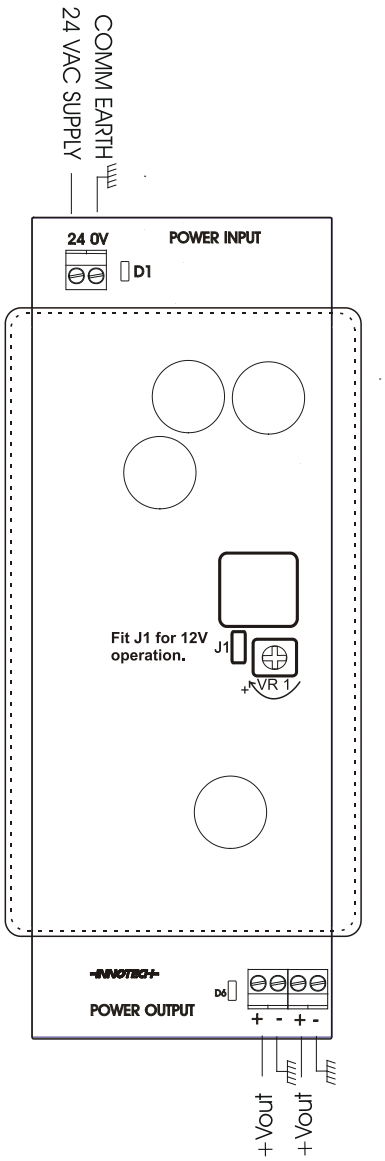
12V operation

- Fit Jumper J1
- Adjust output voltage with trimpot VR1.
- Turning VR1 clockwise will increase the output voltage (Range: 10V -14V)

24V operation

- Remover Jumper J1
- Adjust output voltage with trimpot VR1.
- Turning VR1 clockwise will increase the output voltage (Range: 21V -25V)

Connection Diagram



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