SMPS DC Field Power Supply

Features

- Compact design with convenient DIN rail mounting capability
- Wide range of power voltage— converts 85 to 264 VAC 50/60 Hz to 5, 12, or 24 VDC
- Built-in protection against overload
- List Price: $69

Specifications

Efficiency	65 to 74%
Input	AC: 110/220V (85~264V)
	Frequency: 47 to 450 Hz
	Current: Max. 0.15A
	Leakage Current: 0.5mA (110V), 1mA (220V)
	Noise Filter: Yes
Output	Ripple: Max. 2% P-P
	Input Regulation: Max. 0.5% (Max. 100%)
	Load Regulation: Max. 1.5%
	Temp. Regulation: Max. 0.05%/ °C
	Starting time: Max. 100mS
	Hold output: Min. 20mS
Over current	Built-in over current protection Minimum 105%

Operating temp. -10 to +50°C

Storage temp. -25 to +65°C

Humidity 25 to 85%RH

Dielectric strength AC2KV 50/60Hz for 1 minute between terminals.

Insulation resistance Min. 100M Ω (500V DC)

Vibration 0 to 55Hz (cycle:1min.) 0.75mm double amplitude

Shock 300m/s²

Power Indication Red LED

Warranty 1 Year



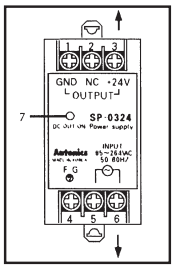
Compact & convenient

When you need an affordable power supply in the field, turn to the SMPS

The Autonics Switching Mode Power Supply (SMPS) which converts an input voltage of 85 to 264V AC 50/60 Hz to 5, 12, or 24V DC, provides power to field transmitters as well as other instruments. Even with its compact dimensions (3" x 1.5" x 2.5"), the SMPS easily converts a wide range of voltage. The convenient DIN rail mounting capability permits its use in remote locations. Built-in short-circuit protection will guard against over-loads. The SMPS is also unique in that it provides a high output relative to its small size.

Connection

1 DC Output
2 NC terminal (not using)
3 DC Output
4 Field ground terminal
5 Power supply
6 Power supply
7 Signal lamp

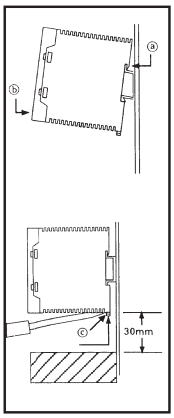


Track Mounting

To mount the power supply on a track hook (A) the power supply to the track. Press the power supply in as indicated (H).

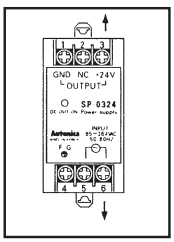
To mount unit without track insert stopper enclosing in the box at the unit then tighten bolts between stoppers and panel mount.

To remove the power supply form the track insert tip of screwdriver into part (C) and push downwards.

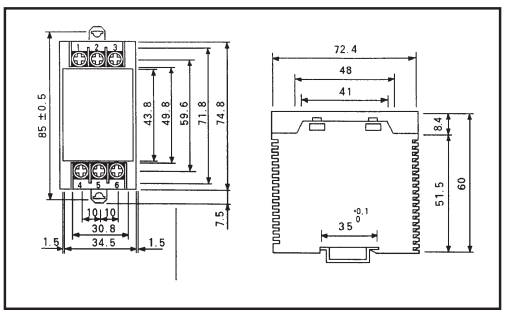


Note: when mounting unit on track provide a distance of at least 30mm below the power supply so it is easier to dismount later.

* When release the unit pull stopper with screwdriver and take out …



Dimensions (in mm)

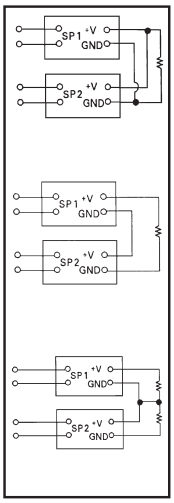


Output Application

Parallel operation
The power supply cannot perform parallel operation. If voltage from an external source is applied to the output circuit of the power supply the power supply may malfunction.

Serial Operation
The power supply cannot perform serial operation. Serial operation with+V/-V outputs for ± output type cannot be performed

Generating output voltage (±) An output of ± can be generated by using two power supplies as shown below.



Model Configuration

S	P	0	3		

SP: Switching Power

03:3W output voltage

05:5V output voltage
12:12V output voltage
24:24 output voltage