



# OPERATION MANUAL

## UNREGULATED POWER SUPPLIES - PSA SERIES

MAG-MATE™

TOLL FREE: 888.582.0822

### INSTALLATION AND OPERATION

Threaded holes on the bottom and one side surface may be used for mounting. The supply may also be rear mounted using the same holes that attach the rear cover plate.

Even a relatively small amount of air flowing around and through a power supply will significantly reduce the rise in its temperature resulting from operation, and therefore the temperature of the critical components within it, improving both reliability and stability. Avoid blocking air flow through vented/perforated surfaces. If the perforated bottom of a supply is mounted to a solid surface, use spacers at least 3/16" thick between it and the surface to which it is fastened, to permit convection air flow, or punch ventilation holes in the mounting surface. Allow free air to circulate around heat sinks. Space at least one inch away from surrounding objects.

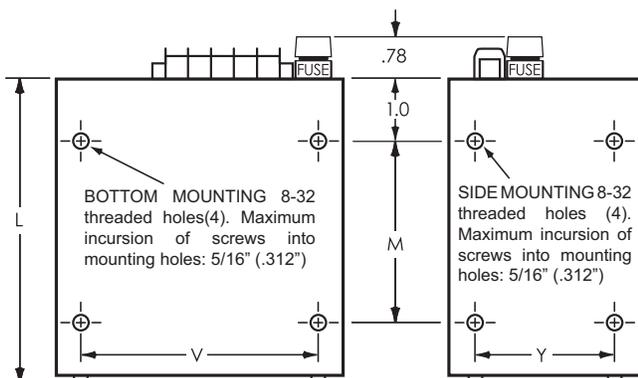
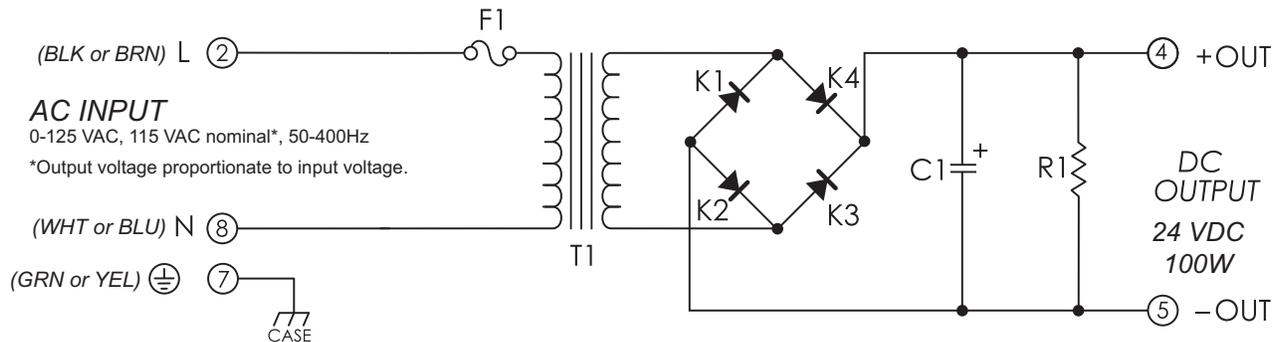
Make all connections before applying AC input power.

Two or more of the same model may be connected in parallel. Two or more of the

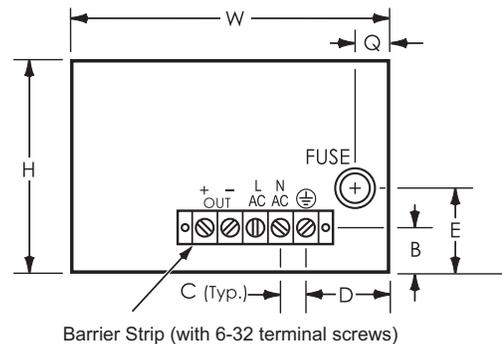
same or different models may be connected in series to obtain a higher voltage up to 1000 Vdc, provided that a reverse-biased diode is used across each output; however, the output current to be drawn cannot exceed the output current rating of the lowest rated supply used.

Frequent fuse failure is symptomatic of power supply overload, a short circuited output, or power supply failure. Do not overfuse; this can result in damage to the power supply.

If the AC input power contains large voltage spikes ('noise') induced by the switching of high currents, inductive loads, electromechanical components, etc., the input power leads to the supply should include some means of transient suppression. Otherwise, a portion of the noise may be coupled through the supply to the load. Also, the supply could be damaged. The means of suppression that is easiest to install is a 1 mfd. capacitor or a metal oxide surge suppressor (MOV) across the AC input terminals of the supply. In extremely severe cases, the use of RF chokes in series with each side of the line may also be required.



For REAR MOUNTING, remove original screws(4) and use 8-32 Type F self tapping screws. They should extend at least 5/16" (0.312") into the power supply case.



Case Size	H	W	L	M	V	Y	Q	E	B	D	C	Approx. Weight
PSA	3.44	5.12	6.59	4.0	4.5	3.0	.56	1.37	.75	1.44	.375	7 lb. 8 oz.

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**TRAMP METAL**

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