

PAT MODEL TABLE

MODEL	d-c OUTPUT RANGE		OUTPUT IMPEDANCE ⁽¹⁾			
			VOLTAGE MODE		CURRENT MODE	
			SERIES RESISTANCE	SERIES INDUCTANCE	SHUNT RESISTANCE	SHUNT CAPACITANCE
	VOLTS	AMPS				
PAT 7-2	0-7	0-2	0.2mΩ	1μH	250KΩ	2.9KμF
PAT 15-1.5	0-15	0-1.5	0.5mΩ	1μH	333KΩ	2.0KμF
PAT 21-1	0-21	0-1	1mΩ	1μH	500KΩ	1.4KμF
PAT 40-0.5	0-40	0-0.5	4mΩ	1μH	1.0MΩ	950μF
PAT 72-0.3	0-72	0-0.3	12mΩ	1μH	1.6MΩ	375μF
PAT 100-0.2	0-100	0-0.2	25mΩ	1μH	2.5MΩ	275μF

1) The tabulated shunt resistance applies for current stabilization using external sensing and feedback. The shunt resistance for the internal sensing mode is $E_{\text{I}}/5\text{mA}$.

PAT GENERAL SPECIFICATIONS

SPECIFICATION	CONDITION	RATING/DESCRIPTION
INPUT		
a-c Voltage	User selectable	105-125, 210-250
Current	Max load, 125V a-c	0.45 Amps rms
Frequency	Range	50-440Hz
OUTPUT		
d-c Output	Series pass	Transistor
Type of stabilizer	Volt stabilizer	Automatic crossover Current limit
Voltage	Adjustment range for temp -20°C to 71°C	0 to 100% of rating
Current		0 to 100% of rating
Error sense	Voltage allowance	0.5V per load wire
Isolation voltage	Output to ground	500V d-c or peak
Leakage current	rms at 115V a-c	<5 microamperes
Output to ground	p-p at 115V a-c	<50 microamperes
Series connection	Max voltage off grd.	500V
Parallel connection	Automatic	Use current mode limiting
	Current sharing	Use master-slave connection
	Redundancy type	External steering diodes
OVP (option on PTR. Add suffix "-VP". Not available, PAT)	Type	Crowbar
	Setting range	4.8V-110% E ₀
	Threshold	5% E ₀ max. or 0.5V, whichever is greater
	Temp. effect on setting	±0.03% / °C

PAT GENERAL SPECIFICATIONS

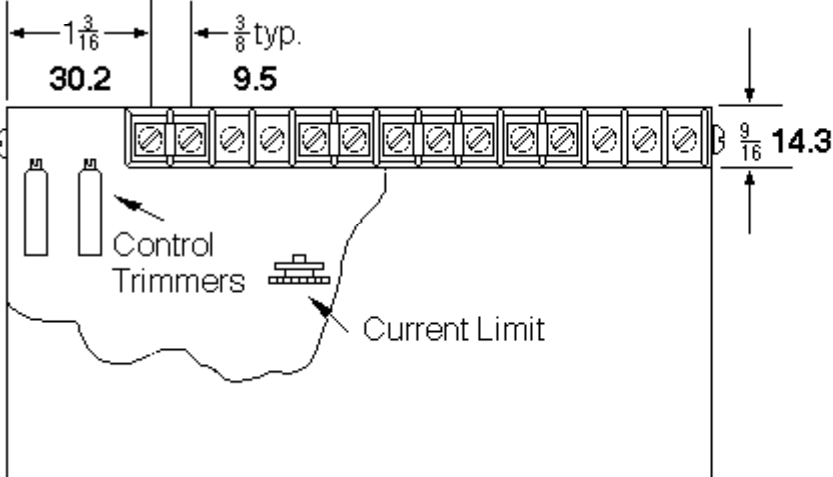
SPECIFICATION	CONDITION	RATING/DESCRIPTION
CONTROL		
Type	Voltage	Variable gain
	Current	Differential comparison
Voltage	Remote analog	0 to 1mA
	Remote digital	Use SN digital to analog converter
Current	Remote analog	0 to 0.5V d-c
	Remote digital (PTR only)	Use SN digital to analog converter
Dynamics	Normal (slow) only	$dV/dt=I/C$ (see tabulated C)
MECHANICAL		
Input connection	All models	Barrier strip
Output connection	All models	Barrier strip
Mounting	Use 6-32 hardware to recessed captive nuts.	For rack mounting, use adapter RA 26-1, RA 27-2, or RA 28-4.
Dimensions (HxWxD)	inches mm	$4\frac{7}{8} \times 6\frac{3}{8} \times 3\frac{1}{2}$ 84.9 x 161.9 x 123.8
Finish	All models	Black anodized aluminum
Weight (packed for shipment)	6lb (2.7Kg)	

PAT STATIC SPECIFICATIONS

Source Voltage (min.-max.)	<0.0005%	<0.005%	<10 μ V	<2nA	<0.0001%
Load No load-full load	<0.005% or 0.2mV(2)	<0.01%	<200 μ V	<5nA	—
Time 8-hours (drift)	<0.01% or 1mV(2)	<0.02%	<20 μ V	<2nA	<0.005%
Temp. Per °C	<0.01%	<0.02%	<20 μ V	<5nA	<0.005%
Ripple and Noise(4)	rms p-p(5)	<0.1mV <0.5mV	<0.2% of I _o max <0.1% of I _o max	— —	— —

Fractional dimensions in light face type are in inches, dimensions in bold face type are in millimeters.

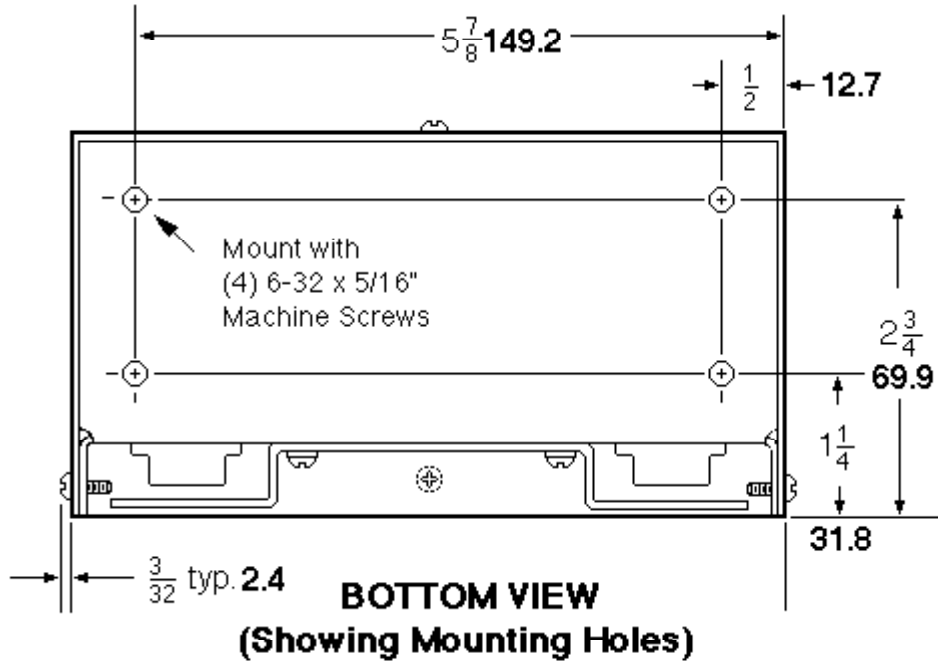
Tolerance: $\pm 1/64$ " (0.4) between mounting holes; $\pm 1/32$ " (0.8) other dimensions



TOP VIEW

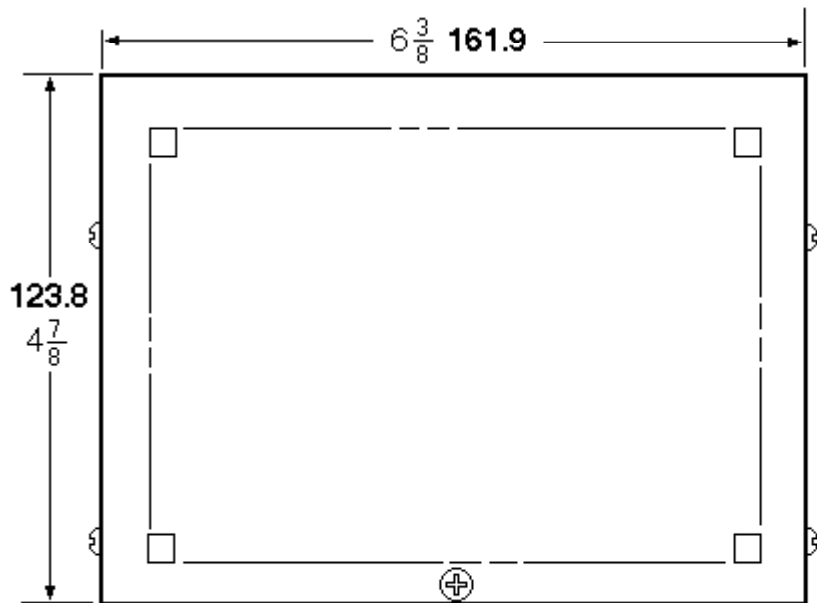
Fractional dimensions in light face type are in inches, dimensions in bold face type are in millimeters.

Tolerance: $\pm 1/64$ " (0.4) between mounting holes; $\pm 1/32$ " (0.8) other dimensions



Fractional dimensions in light face type are in inches, dimensions in bold face type are in millimeters.

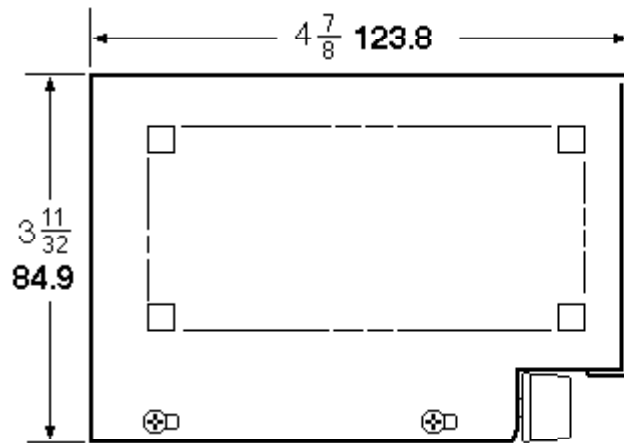
Tolerance: $\pm 1/64$ " (0.4) between mounting holes; $\pm 1/32$ " (0.8) other dimensions



REAR VIEW

Fractional dimensions in light face type are in inches, dimensions in bold face type are in millimeters.

Tolerance: $\pm 1/64$ " (0.4) between mounting holes; $\pm 1/32$ " (0.8) other dimensions



SIDE VIEW