

PTR MODEL TABLE

MODEL	d-c OUTPUT RANGE		OUTPUT IMPEDANCE ⁽¹⁾			
			VOLTAGE MODE		CURRENT MODE	
			SERIES RESISTANCE	SERIES INDUCTANCE	SHUNT RESISTANCE	SHUNT CAPACITANCE
PTR 7-5.5	0-7	0-5.5	64 $\mu\Omega$	0.5 μ H	90K Ω	1250 μ F
PTR 15-3.3	0-15	0-3.3	225 $\mu\Omega$	0.5 μ H	150K Ω	800 μ F
PTR 21-2.5	0-21	0-2.5	420 $\mu\Omega$	0.5 μ H	200K Ω	500 μ F
PTR 40-1.4	0-40	0-1.4	1.4m Ω	0.5 μ H	350K Ω	350 μ F
PTR 72-0.8	0-72	0-0.8	4.5m Ω	0.5 μ H	625K Ω	300 μ F
PTR 100-0.6	0-100	0-0.6	10m Ω	0.5 μ H	840K Ω	100 μ F

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

PTR GENERAL SPECIFICATIONS

SPECIFICATION	CONDITION	RATING/DESCRIPTION
INPUT		
a-c Voltage	User selectable	105-125, 210-250
Current	Max load, 125V a-c	1.2 Amps rms
Frequency	Range	50-440Hz
OUTPUT		
d-c Output	Series pass	Transistor
Type of stabilizer	Volt/current	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

PTR GENERAL SPECIFICATIONS

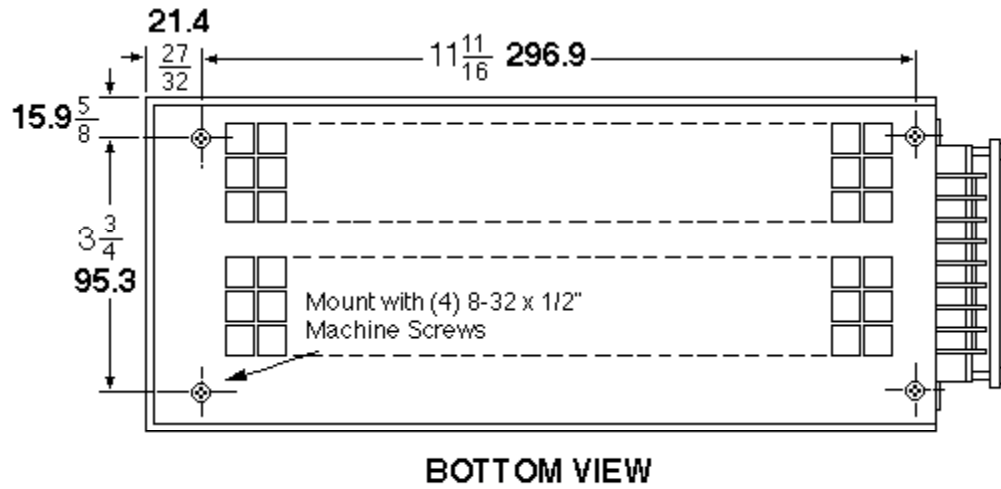
SPECIFICATION	CONDITION	RATING/DESCRIPTION
CONTROL		
Type	Voltage	Variable gain
	Current	Differential comparison
Voltage	Remote analog	0 to 1mA
	Remote digital	Use SN digital to analog converter
Current	Remote analog	0 to 0.5V d-c
	Remote digital (PTR only)	Use SN digital to analog converter
Dynamics	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 8-32 hardware to recessed captive nuts.	For rack mounting, use adapter RA 35-1, RA 33-3, or RA 34-4.
Dimensions (HxWxD)	inches mm	$3\frac{1}{4} \times 5 \times 13\frac{27}{32}$ 83 x 127 x 351.6
Finish	All models	Black anodized aluminum
Weight (packed for shipment)	11lb (5Kg)	

PTR STATIC SPECIFICATIONS

INFLUENCE QUANTITY	OUTPUT EFFECTS VOLTAGE MODE	OUTPUT EFFECTS CURRENT MODE		AMPLIFIER OFFSETS		VOLTAGE REFERENCE (INTERNAL)
		INTERNAL	EXTERNAL	OFFSET VOLTAGE ΔE_o	OFFSET CURRENT ΔI_o	
Source Voltage (min.-max.)	<0.001%	<0.005% or 25 μ A ⁽²⁾	<0.005%	<5 μ V	<1nA	<0.0001%
Load No load-full load	<0.005% or 0.1mV ⁽²⁾	<3.0m A ⁽³⁾	<0.01%	<100 μ V	<5nA	—
Time 8-hours (drift)	<0.01% or 0.2mV ⁽²⁾	<0.05% or 0.1m A ⁽²⁾	<0.02%	<20 μ V	<1nA	<0.005%
Temperature Per °C	<0.01%	<0.05% or 0.1m A ⁽²⁾	<0.02%	<20 μ V	<2nA	<0.005%
Ripple	rms	<0.1mV	<0.5m A	<0.5m A	—	—
and Noise ⁽⁴⁾	p-p ⁽⁵⁾	<2.0mV	<2.0m A	<2.0m A	—	—

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



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