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Test & Measurement

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Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

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PCX-MAT MODEL TABLE						
MODEL		-c ΓRANGE AMPS	VOLTAG SERIES R	OUTPUT IN E MODE SERIES L	MPEDANCE CURREN SHUNTR	T MODE SHUNTC
PCX 7-2MAT	0-7	0-2	0.2mΩ	1μH	250ΚΩ	500µF
PCX: 15-1.5MAT	0-15	0-1.5	0.5mΩ	1μH	333ΚΩ	225µF
PCX 21-1MAT	0-21	0-1	1.0mΩ	1μH	500ΚΩ	150µF
PCX: 40-0.5MAT	0-40	0-0.5	4.0mΩ	1μH	1.0ΜΩ	100µF
PCX: 72-0.3MAT	0-72	0-0.3	12.0mΩ	1μH	1.6ΜΩ	50μF
PCX 100-0.2MAT	0-100	0-0.2	25.0mΩ	1μH	2.5ΜΩ	40μF
PCX 200-0.1MAT	0-200	0-0.1	100.0mΩ	1μH	10.0ΜΩ	30 <i>µ</i> F

CC & PCX-MAT GENERAL SPECIFICATIONS					
SPECIFICATION	CONDITION	RATING/DESCRIPTION			
INPUT					
Voltage	User selectable	105-125/210-250V a-c			
Current	Maxload, 115Va-c	0.6Arms			
Frequency		50-440Hz			
OUTPUT	ОИТРИТ				
Current adjustment (PCX-MAT)	0-71°C	0-100% of rating range			
Voltage limiting (CC)	Fixed	150-200% of rated load compliance voltage			
Error sense (PCX-MAT)	Static voltage allowance	0.5V per load wire			
Voltage recovery	Step load change between 10% and 100% lomax	50μsec typ, 100μsec max			
Isolation voltage	Output to ground	500 V d-c or peak			
Leakage current,	rmsat 115V a-c	5 microam peres			
Output to ground	p-pat 115Va-c	50 microam peres			
Series connection (PCX-MAT)	Max voltage off ground	500V			
Parallel connection	_	No restrictions			
OVP	_	Not available			

CC & PCX-MAT GENERAL SPECIFICATIONS					
SPECIFICATION	CONDITION	RATING/DESCRIPTION			
CONTROL					
Type (PCX-MAT)	Voltage	Fixed input, variable gain			
Voltage	Local	10-turn precision rheostat			
(PCX-MAT)	Remote an alog	1000 Ohms/Volt or by control voltage delivering 0-1mA			
	Pemote digital	Use SN digital to a nalog converter			
Type (CC)	Current	Fixed ref. variable gain			
Current	Local	10-turn precision rheostat			
(CC)	Remote an alog	0-10,000 Ohm resistor, or by control voltage delivering 0-100µA			
Dynamics Programming speed		dV/dt=I/C (see tabulated C) in the model table			
MECHANICAL					
Input/output connections	Source power, d-c output, sense, & control terminals	Male PC connector mates with built-in socket in bench or rack housing			
	Output monitoring	Front panel			
Meters	Frontpanelanalog	Two 2" ±3% horizontal			
Indicators	One neon	Poweron			
Mounting	S⊖⊖ Mounting	Fits in single slot of rack or bench housing			
Cooling	Convection	Top surface			
Dimensions	Inches	57/32 x 225/32 x 1415/16			
(H x W x D)	mm	132.6 x 70.6 x 379.4			
Finish; Fed Std 595	Front panel	Gray color 26440			
Weight	Packed for shipment	81bs (3.6Kg)			

STATIC SPECIFICATIONS			
INFLUENCE QUANTITY			
Source: 105-125/210-250V a-c			
Load: 10% load - 100% load			
Time: 8 hours	(drift)		
Temperature: I	Per °C		
Flipple and Noise(2)	rms pp(3)		

PCX-MAT			
OUTPUT EFFECTS VOLTAGE MODE	VOLTAGE A OFFS ∆E _{io}		VOLTAGE REFERENCE (INTERNAL)
<0.0005%	<10µV	<2nA	0.0001%
<0.005% or 0.2m V(1)	<200 <i>p</i> ∨	⊲6nA	_
<0.01% or 1m V ⁽¹⁾	<20 <i>p</i> ∀	<2nA	0.005%
<0.01% ⁽⁴⁾	<20 <i>p</i> ∀	⊲5nA	0.005%
<0.1m V	_	_	_
⊲3mV	_	_	_

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



