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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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SERIES MSK



Model MSK 40-2.5M

Kepco's MSK linear power supplies provide a selection of five models, offering 100 Watts of stable benchtop power. They use a high gain linear (series pass) stabilizer circuit for low noise output, good stability, and accurate resettability.

MSK's "Preview" switch (d-c on-off) allows voltage and current to be pre-set with the digital meters displaying the set values. At "d-c off," no voltage is applied to the output terminals and no load current needs to be drawn to set the current limit. At "d-c on," the set voltage is applied to the output terminals, the appropriate mode indicator illuminates and the meters indicate actual voltage and current.

Convenient heavy duty front panel binding posts, that accept wires or mating "banana" plugs, allow easy connection to your breadboards. A built-in, quiet, low-speed fan ensures good cooling in any environment.

MSK MODEL TABLE

MODEL	d-c OUTPUT RANGE		POWER WATTS
	VOLTS	AMPS	
MSK 10-10M	0-10	0-10	0-100
MSK 20-5M	0-20	0-5	0-100
MSK 40-2.5M	0-40	0-2.5	0-100
MSK 60-2M	0-60	0-2	0-120
MSK 125-1M	0-125	0-1	0-125

FEATURES

- 10 turn voltage and current controls for exceptional resolution.
- Remote programming by variable resistance.
- Voltage and current mode operation with automatic crossover.
- Voltage and current may be pre-set off-line.
- Linear low noise stabilizer.
- Rack mounting with adapter.



MSK GENERAL SPECIFICATIONS

SPECIFICATION	RATING/DESCRIPTION	CONDITION
INPUT		
Voltage	105-125/210-250V a-c	User selectable (rear switch)
Current	2.8A rms max	Maximum load, 115V a-c
Frequency Range	47-63Hz	
OUTPUT		
d-c Output	Series pass	Transistor
Type of Stabilizer	Automatic crossover	Voltage/current
Voltage Adjustment Range	0-100% of rating	0 to +45°C
Current Adjustment Range	0-100% of rating	0 to +45°C
Error Sense	0.5V per load wire	Voltage allowance ⁽¹⁾
Voltage Recovery	50µsec typ, 100µsec max	Step load change between 10% and 100% I _O max
Isolation Voltage	500V d-c or peak	Output to ground
Leakage Current	<5 microamperes	rms at 115V a-c
Output to Ground	<50 microamperes	p-p at 115V a-c
OVP	Crowbar SCR Setting tracks output	Transient 5 milliseconds or more
CONTROL		
Programming	Voltage and current	By resistance
Voltage	10-turn precision rheostat	
Current	10-turn precision rheostat	
MECHANICAL		
Input Connections	IEC detachable line cord	
Output Connections	Front panel binding posts	Output, sense & ground ⁽²⁾
Meters	Two 3½" LCD digital displays	±1 digit
		±1% I _O ±1 digit
Cooling	1800 rpm low noise blower	
Dimensions	inches 5¾ ⁽³⁾ x 8⅞ x 13⅝ ₂	
(HxWxD)	mm 146 x 206 x 334	
Finish: Fed Std 595	Light gray, color 26440	Front panel, 2 tone
Weight (packed for shipment)	19lbs (8.6Kg)	MSK 10-10M, MSK 20-5M, MSK 40-2.5M
	21lbs (9.5Kg)	MSK 60-2M & MSK 125-1M

(1) An additional volt is provided in the output beyond the rating for this purpose.

(2) Ground terminal permits grounding of either plus or minus output terminal.

(3) Including feet.

MSK STATIC SPECIFICATIONS

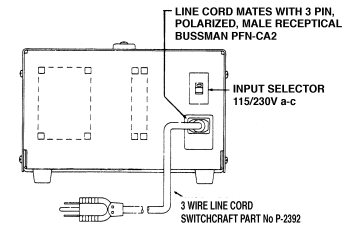
INFLUENCE QUANTITY	VOLTAGE MODE*	CURRENT MODE*
Source: 105-125/210-250V a-c	0.01%	0.01%
Load: No load - full load	0.01%	0.05%
Time: 8-hour drift	0.01%	0.02%
Temperature: per °C	0.01%	0.02%
Ripple and Noise:	rms	0.5mV
	p-p	3.0mV
		0.1%

* Note: Percentage values are referenced to the maximum rated voltage or current of the unit.

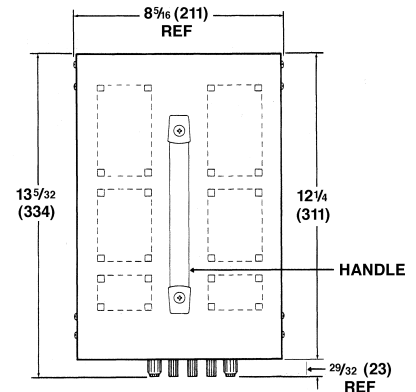
OUTLINE DIMENSIONAL DRAWINGS

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

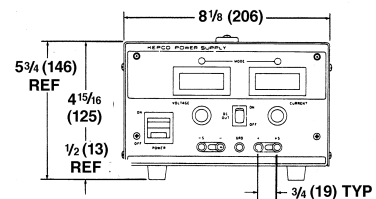
Tolerance: ± 1/64" (0.4) between mounting holes
± 1/32" (0.8) other dimensions



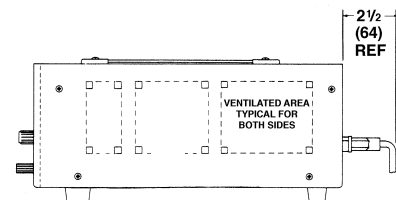
REAR VIEW



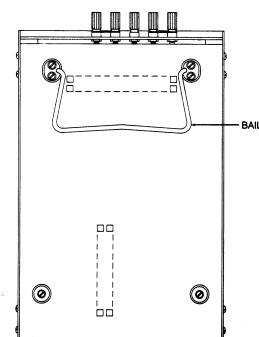
TOP VIEW



FRONT VIEW



SIDE VIEW



BOTTOM VIEW