SERIES **MSK**



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					
	d-c OUTPUT RANGE		POWER		
MODEL	VOLTS	AMPS	WATTS		
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.





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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 0-100% of rating 0 to +45°C 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 ₀ max Isolation Voltage 500V d-c or peak Output to ground Leakage Current <50 microamperes p-p at 115V a-c OVP Crowbar SCR Setting tracks output or more CONTROL Programming Voltage and current By resistance Voltage 10-turn precision rheostat Current 10-turn precision rheostat Current 10-turn precision rheostat MECHANICAL Input Connections Input						
Voltage105-125/210-250V a-cUser selectable (rear switch)Current2.8A rms maxMaximum load, 115V a-cFrequency Range47-63HzOUTPUTSeries passTransistord-c OutputSeries passVoltage/currentVoltage Adjustment Range0-100% of rating0 to +45°CCurrent Adjustment Range0-100% of rating0 to +45°CCurrent Adjustment Range0.5V per load wireVoltage allowance(1)Voltage Recovery50µsec typ, 100µsec maxStep load change between 10% and 100% lo maxIsolation Voltage500V d-c or peakOutput to groundLeakage Current Output to Ground<50 microamperes	SPECIFICATION	RATING/DESCRIPTION	CONDITION			
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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% lo max Isolation Voltage 500V d-c or peak Output to ground Leakage Current Output to Ground <50 microamperes	Current	2.8A rms max	Maximum load, 115V a-c			
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RangeVoltage load wireVoltage allowance(1)Error Sense0.5V per load wireVoltage allowance(1)Voltage Recovery50µsec typ, 100µsec maxStep load change between 10% and 100% lo maxIsolation Voltage500V d-c or peakOutput to groundLeakage Current<5 microamperes		0-100% of rating	0 to +45°C			
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100µsec max 10% and 100% lo max Isolation Voltage 500V d-c or peak Output to ground Leakage Current <5 microamperes	Error Sense	0.5V per load wire	Voltage allowance(1)			
Leakage Current <5 microamperes	Voltage Recovery					
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 Inoturn precision rheostat MECHANICAL IEC detachable line cord Output connections Front panel binding posts Output, sense & ground(2) Meters Voltage Two 3½" LCD digital displays ±1 digit ±1% l ₀ ±1 digit Cooling 1800 rpm low noise blower 1800 rpm low noise ±1% l ₀ ±1 digit	Isolation Voltage	500V d-c or peak	Output to ground			
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 Voltage Two 3½" LCD digital displays ±1 digit Cooling 1800 rpm low noise blower ±1% l _o ±1 digit	Leakage Current	<5 microamperes	rms at 115V a-c			
Setting tracks output or more CONTROL Programming Voltage and current By resistance Voltage 10-turn precision rheostat Current Current 10-turn precision rheostat MECHANICAL Input Connections IEC detachable line cord Output, sense & ground ⁽²⁾ Meters Voltage Two 3½" LCD digital displays ±1 digit Cooling 1800 rpm low noise blower ±1% l _o ±1 digit	Output to Ground	<50 microamperes	p-p at 115V a-c			
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Current 10-turn precision rheostat MECHANICAL Input Connections IEC detachable line cord Output Connections Front panel binding posts Output, sense & ground(2) Meters Voltage Two 3½" LCD digital displays ±1 digit Cooling 1800 rpm low noise blower ±1% l _o ±1 digit	Programming	Voltage and current	By resistance			
MECHANICAL Input Connections IEC detachable line cord Output Connections Front panel binding posts Output, sense & ground ⁽²⁾ Meters Voltage Two 3½" LCD digital displays ±1 digit Cooling 1800 rpm low noise blower ±1% l _o ±1 digit	Voltage	10-turn precision rheostat				
Input Connections IEC detachable line cord Output Connections Front panel binding posts Output, sense & ground(2) Meters Voltage Two 3½" LCD digital displays ±1 digit Cooling 1800 rpm low noise blower ±1% l _o ±1 digit	Current	10-turn precision rheostat				
Output Connections Front panel binding posts Output, sense & ground ⁽²⁾ Meters Voltage Two 3½″ LCD digital displays ±1 digit Cooling 1800 rpm low noise blower ±1% l ₀ ±1 digit						
Meters Voltage Current Two 3½″ LCD digital displays ±1 digit ±1% l _o ±1 digit Cooling 1800 rpm low noise blower ±1% l _o ±1 digit	Input Connections	IEC detachable line cord				
Current displays ±1% I ₀ ±1 digit Cooling 1800 rpm low noise blower ±1% I ₀ ±1 digit	Output Connections	Front panel binding posts	Output, sense & ground ⁽²⁾			
Cooling 1800 rpm low noise blower 1800 rpm low noise	Meters Voltage		±1 digit			
blower	Current	displays	±1% l _o ±1 digit			
Dimensions inches $53/(3) \times 81/(1) \times 135/(2)$	Cooling					
	Dimensions inches	5 ³ / ₄ (3) x 8 ¹ / ₈ x 13 ⁵ / ₃₂				
(HxWxD) mm 146 x 206 x 334	(HxWxD) mm	146 x 206 x 334				
Finish: Fed Std 595 Light gray, color 26440 Front panel, 2 tone	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		19lbs (8.6Kg)				
21lbs (9.5Kg) MSK 60-2M & MSK 125-1M		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.

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MSK STATIC SPECIFICATIONS		5	
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	0.02%
	р-р	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: $\pm 1/64^*$ (0.4) between mounting holes $\pm 1/32^*$ (0.8) other dimensions









