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Data Sheet

August 13, 2026

KEPCO

Kepco MPS620M

The Kepco MPS 620M is a single output, 0-6V, 0-20A, 120W, programmable DC power supply. It features voltage and current control with display and front panel control. The MPS series are linear programmable power supplies that are well suited for benchtop or ATE system applications.



MODEL

Kepco MPS620M

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MPS620M

LISTING

<https://aumictechlabs.com/products/mps620m-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Kepco MPS620M is a three-output linear DC power supply for laboratory and ATE applications requiring precise voltage and current control across multiple rails. The unit combines a high-current 6V primary output with dual tracking $\pm 20V$ outputs, all adjustable via front panel controls. Each output section includes independent current limiting and protection circuitry. Operating from selectable AC mains (105-125V or 210-250V, 50-440 Hz), it delivers stable, low-noise power suitable for IC testing, microprocessor development, and system integration. Technical Specifications Input & Physical AC input: 105-125V or 210-250V AC, selectable, 50-440 Hz, single phase Power consumption: Approximately 250W Package: Three-quarter rack; cold-rolled steel chassis and cover; aluminum front panel Operating temperature: -20°C to $+50^{\circ}\text{C}$ (full current rating at 50°C) Storage temperature: -40°C to $+85^{\circ}\text{C}$ Output isolation: Floatable to 300V DC or peak off ground Compliance: MIL-STD-461 Primary 6V Output Voltage range: 0 to 6V,

continuously adjustable via ten-turn control Current rating: 0 to 5A Current limiting: Fixed at approximately 110% of maximum; indefinite short-circuit sustainment with auto-recovery
Overvoltage protection: Adjustable crowbar circuit, 4V to 8V range, with indicator lamp Remote error sensing terminals provided Dual $\pm 20\text{V}$ Tracking Outputs Voltage range: 0 to +20V and 0 to -20V independently, single ten-turn control Current rating: 0 to 1A per output Current limiting: Adjustable, preset internally from 10% to 110% of rated current (0.1A to 1.1A) Series configuration: Can be connected for 0 to 40V at 1A Short-circuit proof via sharp current-limit characteristic
Performance & Regulation Voltage recovery: $<50\mu\text{sec}$ typical, $100\mu\text{sec}$ maximum (10% to 100% load step) Source variation (105-125V/210-250V, 50-440 Hz): 0.01% for 6V and $\pm 20\text{V}$ outputs Load variation (no-load to full-load): 0.01% for 6V, 0.05% for $\pm 20\text{V}$ outputs Key Features Three independent output channels with dedicated front panel controls Adjustable current limiting and overvoltage protection on primary output Floating output capability for high-voltage common-mode applications Fast voltage recovery under transient load conditions Short-circuit proof operation on all outputs Selectable input voltage for global operation Typical Applications IC characterization and testing Microprocessor development and validation Benchtop circuit design and troubleshooting Integration into automated test equipment (ATE) systems High-voltage floating-ground applications Compatibility & Integration Remote error sensing terminals support closed-loop regulation in system applications. MIL-STD-461 compliance enables integration into military and aerospace test facilities. Three-quarter rack format accommodates standard 19-inch equipment racks.

MPS620M Characteristics / Specifications

PARAMETER	VALUE
Model	MPS 620M
Manufacturer	Kepeco Inc
Instrument Type	Triple output linear bench DC power supply
Series	MPS
Alias	MPS 620M; MPS620M; MPS-620M
Total Power	70 W
Digital Rail Voltage	0 to 6 V
Digital Rail Current	0 to 5 A
Digital Current Limit	fixed rectangular about 110 percent
OVP Crowbar Range	4 to 8 Vdc locking screwdriver
OVP Indicator	crowbar ON LED
Positive Analog Voltage	0 to plus 20 V
Negative Analog Voltage	0 to minus 20 V
Analog Current Each	0 to 1 A
Tracking	better than plus/minus 1 percent plus 10 mV
Analog Current Limit	about 10 to 105 percent of rating
Series Analog	0 to 40 V using plus and minus 20 V (common center)
Parallel Analog	not permitted (shared center tap)
Short Circuit	indefinite on both sections
Voltage Control 6 V	10 turn
Voltage Control 20 V	single 10 turn for both polarities
Meters	two 2.5 inch analog, 3 position selector
Outputs Front	binding posts
Outputs Rear	barrier strips
Isolation Sections	6 V supply isolated from plus/minus 20 V

PARAMETER	VALUE
Agency	MIL-STD-461 compliant
Topology	series pass linear Notes
Specs from Kepco Series MPS page (MPS 620M)	0-6 V 0-5 A with 4-8 V crowbar; tracked plus/minus 20 V 0-1 A; 70 W). Confirm meter switch position when reading V/I.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Series	MPS
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Specifications

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PARAMETER	VALUE
Meters	two 2.5 inch analog, 3 position selector
Outputs Front	binding posts
Outputs Rear	barrier strips

Isolation Sections: 6 V supply isolated from plus/minus 20 V

Agency: MIL-STD-461 compliant

Optional Suffix L: locking screwdriver controls

Topology: series pass linear

Notes

Specs from Kepco Series MPS page (MPS 620M: 0-6 V 0-5 A with 4-8 V crowbar; tracked plus/minus 20 V 0-1 A; 70 W). Confirm meter switch position when reading V/I.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.