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Data Sheet

August 13, 2026

KEPCO

Kepco BOP200-1M

The Kepco BOP 200-1M is a Bipolar Operational Power Supply/Amplifier designed for precision control of voltage and current. It features a four-quadrant operation, allowing it to function as a stable DC power source or a high-performance amplifier. Ideal for demanding applications requiring precise and linear control.



MODEL Kepco BOP200-1M	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU BOP200-1M	LISTING https://aumictechlabs.com/products/bop200-1m-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Kepco BOP200-1M is a 200-watt bipolar operational power supply delivering precision voltage and current control across four quadrants. Operating as both a stable DC source and amplifier, It has smooth linear control from negative to positive voltage and current ranges without polarity switching. This high-speed power operational amplifier excels in applications demanding dynamic, linear regulation - including resistive loads and precision test systems. Unlike general-purpose supplies, the BOP200-1M omits energy-storage output capacitors to minimize high-frequency noise, making it ideal for fast-transient applications. Capacitive loads exceeding 0.1 μ F require operational slowdown to prevent oscillation. Technical Specifications Output Voltage: 0 to ± 200 V Output Current: 0 to ± 1 A Output Power: 200 W Voltage Mode Closed Loop Gain: 20.0 Current Mode Closed Loop Gain: 0.1 Voltage Ripple and Noise: 5 mV RMS maximum; 50 mV peak-to-peak maximum Dynamic Impedance (Voltage Mode): 4.0 m Ω Dynamic Impedance (Current

Mode): 1200 μ H Load Resistance for Stability (Voltage Mode): 20 k Ω Load Capacitance for Stability (Voltage Mode): 0.05 μ F Isolation Voltage (Output to Ground): 500 V DC or peak Output to Ground Current Leakage: <5 μ A Input Voltage: 115 V AC (105–125 V AC), 57–63 Hz; 104 V AC, 208 V AC, or 230 V AC operation available Power Conversion: Linear stabilization Key Features Front panel 10-turn zero-center potentiometers for voltage and current control Remote analog control via ± 10 V input signals 50-terminal rear user port for integrated controls and flag signals Digital control options: 12-bit (BIT 4882), 16-bit (BIT 4886), IEEE 488.2 Talk/Listen with SCPI support, or long-range serial via BIT TMA-27 Listen-only GPIB support (BIT 488B or 488D) in binary or hexadecimal format Field-adjustable stability for inductive loading via special rear terminals Typical Applications Precision load testing, amplifier evaluation, transient response measurement, component characterization, and dynamic circuit validation requiring four-quadrant sourcing and sinking capability. Compatibility & Integration Supports IEEE 488.2 GPIB, RS-232, and VXI-based system integration. Dual input voltage configuration enables flexible deployment in 100 V and 200+ V AC regions.

BOP2001M Characteristics / Specifications

PARAMETER	VALUE
Model	BOP 200-1M
Manufacturer	Kepeco Inc
Instrument Type	4 quadrant bipolar operational power supply
Series	BOP
Alias	BOP 200-1M; BOP200-1M; BOP 200-1
Output Voltage	plus/minus 200 V
Output Current	plus/minus 1 A
Power Class	200 W
Quadrants	4 (source and sink)
Voltage Mode Series R	4.0 mohm
Voltage Mode Series L	1.2 mH
Current Mode Shunt R	200 kohm
Current Mode Shunt C	0.03 uF
Max Input Current	5.5 A at 115 Vac
Slew Voltage Class	5 V per us
Slew Current Class	15 mA per us
AC Voltage	95 to 113, 105 to 125, 190 to 226, 210 to 250 Vac user selectable
AC Frequency	47 to 65 Hz
Isolation	500 Vdc or peak output to ground
Leakage RMS	less than 5 uA rms at 115 Vac
Stabilizer	automatic crossover voltage/current
Error Sense	0.5 V per load wire
Series Connection	500 V max off ground
Parallel	master slave current sharing
Local Control	10 turn class plus four limit trimmers

PARAMETER	VALUE
Remote Analog	0 to 10 V voltage and current channels
Remote Digital	BIT card SN/SNR or BIT 4886 GPIB class
User Amplifiers	two uncommitted gain 20 k class
References	plus/minus 10 V, 1 mA two provided
Meter Analog	M suffix analog meters
Operating Temperature	0 to 55 C at 0 to 100 percent rating Notes

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C at 0 to 100 percent rating
Operating Temperature	0 to 55 C at 0 to 100 percent rating

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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Instrument Type	4 quadrant bipolar operational power supply
Specifications	
PARAMETER	VALUE
Series	BOP
Alias	BOP 200-1M; BOP200-1M; BOP 200-1
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PARAMETER	VALUE
Output Current	plus/minus 1 A
Power Class	200 W
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Voltage Mode Series R	4.0 mohm
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PARAMETER	VALUE
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PARAMETER	VALUE
Slew Current Class	15 mA per us
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Specifications

PARAMETER	VALUE
User Amplifiers	two uncommitted gain 20 k class
References	plus/minus 10 V, 1 mA two provided
Meter Analog	M suffix analog meters

Operating Temperature: 0 to 55 C at 0 to 100 percent rating

Notes

Specs from Kepco BOP catalog table (BOP 200-1M: plus/minus 200 V, plus/minus 1 A, 4.0 mohm, 1.2 mH, 200 kohm, 0.03 uF, 5.5 A in). ConfirmMversusDdigital meters and BIT card population.

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.