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Data Sheet

August 13, 2026

KEPCO

Kepco ATE55-20M

The Kepco ATE55-20M is a power supply designed for a variety of applications. It features adjustable voltage and current settings, allowing users to fine-tune the output to meet specific requirements. The ATE series is known for its reliable performance and solid construction, making it suitable for both laboratory and industrial environments.



MODEL

Kepco ATE55-20M

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ATE55-20M

LISTING

<https://aumictechlabs.com/products/ate55-20m-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Kepco ATE55-20M is a 1000-watt DC power supply built for precision analog control in laboratory and industrial environments. It delivers adjustable voltage and current outputs from 0–55 VDC and 0–20 ADC, with exceptional load regulation and ultra-low ripple. The series-pass architecture with automatic crossover switching provides low output impedance in voltage mode (1.1 mΩ slow, 2 μH fast) and high impedance in current mode, making it suitable for transient testing, device characterization, and signal-following applications. Technical Specifications Output: 0–55 VDC, 0–20 ADC (1 kW maximum) Voltage programming bandwidth: 4.0 kHz minimum; time constant 40 μsec maximum Ripple and noise (slow mode): <0.1 mV RMS, <1 mV peak-to-peak Ripple and noise (0–6 mA load effect): 0.3 mV RMS, 3 mV peak-to-peak Load regulation (voltage mode): <0.0005% of Eomax Source voltage effect (voltage mode): <0.0005% of Eomax 8-hour drift: <0.005% Eomax (voltage mode), <0.01% Iomax (current mode) Output

impedance (voltage mode): 1.1 m Ω (slow), 2 μ H (fast) Output impedance (current mode): 20 μ H (slow), 110 k Ω (fast) Output capacitance: 5,200 μ F (slow), 2.25 μ F (fast) Key Features Series-pass regulator with automatic voltage/current mode crossover Local control via 10-turn rheostats; optional locking screw-driver adjustable controls Remote analog programming with 0–10V signal Two uncommitted amplifiers for signal conditioning Optically isolated TTL-compatible mode flag signal Remote error sensing terminals Output capacitor connection directly at load Full-rack form factor: 6.969" H $\times$ 19.000" W $\times$ 19.874" D Natural convection cooling Control and Integration Multi-terminal user port for jumper-based configuration Optional digital display or GPIB digital programming modules Analog remote control with programmable overvoltage crowbar Rear connector access for all control and flag signals

ATE5520M Characteristics / Specifications

PARAMETER	VALUE
Model	ATE 55-20M
Manufacturer	Kepeco Inc
Instrument Type	Precision linear programmable DC power supply
Series	ATE
Alias	ATE 55-20M; ATE55-20M; ATE 55-20
Rated Output Voltage	0 to 55 Vdc
Rated Output Current	0 to 20 A
Rated Power	1100 W class (55 V times 20 A)
Package	full rack Size E 1000 W family
Voltage Mode Series L	2 uH
Voltage Mode Series R	55 uohm
Stabilizer	automatic crossover voltage/current
Source Effect Voltage Typ	less than 0.0005 percent of Eo max
Load Effect Voltage Typ	less than 0.001 percent of Eo max
Ripple Slow RMS	less than 0.1 mV typical
Ripple Slow PP	less than 1 mV typical
Ripple Fast RMS	less than 1 mV typical
Local Voltage Control	10 turn rheostat
Local Current Control	10 turn rheostat
Meters	analog (M suffix)
Remote Analog	voltage and current channels
Fast Mode	optional
Mode Flag	optically isolated TTL
Error Sense	0.5 V per load wire
Isolation	500 Vdc class

PARAMETER	VALUE
Related Half Rack	ATE 55-5M 0 to 5 A
Related JQE	JQE 55-20M
Related Digital	ATE 55-20DM / DMG
Agency	CE LVD and EMC ATE family Notes

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	ATE
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Specifications	
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Load Effect Voltage Typ	less than 0.001 percent of Eo max
Ripple Slow RMS	less than 0.1 mV typical

Specifications

PARAMETER	VALUE
Ripple Slow PP	less than 1 mV typical
Ripple Fast RMS	less than 1 mV typical
Local Voltage Control	10 turn rheostat

Specifications

PARAMETER	VALUE
Local Current Control	10 turn rheostat
Meters	analog (M suffix)
Remote Analog	voltage and current channels

Specifications

PARAMETER	VALUE
Fast Mode	optional
Mode Flag	optically isolated TTL
Error Sense	0.5 V per load wire

Specifications

PARAMETER	VALUE
Isolation	500 Vdc class
Related Half Rack	ATE 55-5M 0 to 5 A
Related JQE	JQE 55-20M

Related Digital: ATE 55-20DM / DMG

Agency: CE LVD and EMC ATE family

Notes

Specs from Kepco ATE full-rack table (ATE 55-20M: 0-55 V, 0-20 A, 2 uH, 55 uohm). ConfirmMversus DM/DMG and versus ATE 55-5M 5 A half-rack.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.