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Data Sheet

August 13, 2026

KEPCO

Kepco ATE150-7DM

The Kepco ATE150-7DM is a unipolar, linear, programmable DC power supply delivering 500 W across a three-quarter-rack footprint. Built for laboratory, industrial, and system-level test applications, this unit combines precision analog control with digital LCD panel metering for real-time output monitoring. It operates in constant voltage (CV) and constant current (CC) modes with automatic crossover, supported by programmable overvoltage protection and adjustable limiting circuits. The supply accepts local potentiometer control, remote 0-10 V analog programming, and optional IEEE-488 digital interfaces. Two uncommitted internal amplifiers enable signal conditioning and scaling for custom control architectures. Analog control with high gain and zeroable offsets for tracking external signals or resistance inputs. Aumictech offers NIST-traceable calibration and repair for the Kepco ATE150-7



MODEL

Kepco ATE150-7DM

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ATE150-7DM

LISTING

<https://aumictechlabs.com/products/ate150-7dm-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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circuits. The supply accepts local potentiometer control, remote 0-10 V analog programming, and optional IEEE-488 digital interfaces. Two uncommitted internal amplifiers enable signal conditioning and scaling for custom control architectures.

Technical Specifications

Output Range: 0-150 V, 0-7 A

Power: 500 W

Line Regulation (CV): $<0.0005\% E_o \text{ max.}$

Line Regulation (CC): $<0.01\% I_o \text{ max.}$

Load Regulation (CV): $<0.01\% E_o \text{ max.}$

Load Regulation (CC): $<0.02\% I_o \text{ max.}$

Source Effect (CV): $<0.0005\% E_o \text{ max.}$

Time Drift (8 h, CV): $<0.005\% E_o \text{ max.}$

Time Drift (8 h, CC): $0.01\% I_o \text{ max.}$

Temperature Coefficient (CV): $<0.01\% E_o \text{ max.}$

Temperature Coefficient (CC): $0.02\% I_o \text{ max.}$

Output Ripple & Noise (CV RMS): $<0.1 \text{ mV}$

Output Ripple & Noise (CV P-P): $<1 \text{ mV}$

Output Ripple & Noise (CC RMS): $<0.03\% I_o \text{ max.}$

Output Ripple & Noise (CC P-P): $<0.3\% I_o \text{ max.}$

Operating Temperature: 0-55°C

Output Impedance (Slow): $R_s = 0.42 \text{ m}\Omega$, $L_s = 4 \text{ }\mu\text{H}$

Output Impedance (Fast): $R_p = 300 \text{ k}\Omega$, $C_p = 0.3 \text{ }\mu\text{F}$

Key Features

- Analog control with high gain and zeroable offsets for tracking external signals or resistance inputs
- Automatic CV/CC crossover with no external intervention required
- Digital LCD metering for voltage and current observation
- Programmable analog overvoltage crowbar protection (0-10 V command)
- Optically isolated control signal routing for multi-supply interconnection
- Panel-mounted LED mode indicators

Typical Applications

- Component and circuit characterization requiring stable, low-noise bias
- Automated test equipment (ATE) control and sequencing
- Research and development bench supply with precision tracking
- Industrial process power and voltage regulation

Compatibility & Integration

- Local control via 10-turn potentiometers.
- Remote analog programming accepts 0-10 V (voltage) and 0-1 V (current) command signals.
- Optional SN-series IEEE-488 GPIB interfaces enable digital control and remote configuration.
- User port with PC-12 mating connector supports jumper-based setup options.

ATE1507DM Characteristics / Specifications

PARAMETER	VALUE
Model	ATE 150-7DM
Manufacturer	Kepeco Inc
Instrument Type	Precision linear programmable DC power supply
Series	ATE
Alias	ATE 150-7DM; ATE150-7DM; ATE 150-7
Rated Output Voltage	0 to 150 Vdc
Rated Output Current	0 to 7 A
Rated Power	1050 W class
Package	full rack Size E 1000 W
Voltage Mode Series L	4 uH
Voltage Mode Series R	0.42 mohm
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	digital (DM)
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 Analog Meter	ATE 150-7M
Related GPIB	ATE 150-7DMG
Related JQE	JQE 150-7M
Agency	CE LVD and EMC ATE family
Programming Gain Class	20 for 150 V ATE models (operator note) 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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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

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Local Current Control	10 turn rheostat
Meters	digital (DM)
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Fast Mode	optional
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Specifications

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Related JQE	JQE 150-7M
Agency	CE LVD and EMC ATE family
Programming Gain Class	20 for 150 V ATE models (operator note)

Notes

Specs from Kepco ATE full-rack table (ATE 150-7M: 0-150 V, 0-7 A, 4 uH, 0.42 mohm). DM is digital meters. Confirm versusMand DMG.

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.