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Data Sheet

August 13, 2026

KEPCO

Kepco JQE100

Four published 100 V current ratings Manalog or DM digital meters Current local only (ATE 100 for programmable I) Instrument Type: Linear programmable DC power supply 100 V family Alias: JQE100; JQE 100; JQE 100-1M; JQE 100-2.5M; JQE 100-5M; JQE 100-10M Current local only (ATE 100 for programmable I) Instrument Type: Linear programmable DC power supply 100 V family Alias: JQE100; JQE 100; JQE 100-1M; JQE 100-2.5M; JQE 100-5M; JQE 100-10M JQE 100 1 A: 0 to 1 A; series R 5 mohm; series L 2 uH; shunt R 500 kohm; shunt C 110 uF; 2.1 A in; quarter rack



MODEL

Kepco JQE100

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

JQE100

LISTING

<https://aumictechlabs.com/products/jqe100-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Kepco JQE100 is a 100-watt, quarter-rack linear DC power supply engineered for demanding electronic applications requiring stable, ultra-low-noise output. This unit delivers precise voltage control via a 10-turn potentiometer and adjustable current limiting, with output ripple and noise below 3 mV. The JQE100 supports three output configurations: 0–100V at 0–1A, 0–100V at 0–2.5A, or 0–100V at 0–5A. It accepts 105–125V AC or 210–250V AC mains input (selectable) at 50–65 Hz. Technical Specifications Output Power: 100 W Output Voltage Range: 0–100V DC Output Current Range: 0–1A, 0–2.5A, or 0–5A (model-dependent) AC Input: 105–125V AC or 210–250V AC (selectable), 50–65 Hz Output Impedance (Voltage Mode): 5 mΩ series resistance, 2 μH series inductance Output Impedance (Current Mode): 500 kΩ shunt resistance, 110 μF shunt capacitance

Ripple and Noise: <3 mV Isolation Voltage: 500V DC or peak (chassis to output) Common-Mode Current: <5 μ A RMS, <50 μ A peak-to-peak at 115V AC, 60 Hz Leakage Current: <5 μ A Form Factor: 1/4 Rack Key Features 10-turn precision voltage control potentiometer for high-resolution adjustment Front-panel current limiting adjustable from 10% to 105% of rated maximum Remote programming via analog resistance input (1000 Ω /Volt) or voltage input (0–1 mA) Digital listen-only control via SN-series interfaces External current-sense resistor capability for custom current control Isolation voltage of 500V DC or peak between chassis and output terminals Cold-rolled steel chassis with aluminum front panel Low-noise cooling fans for thermal management CE Marked (LVD EN61010-1, EMC, RoHS 2 Directive compliance) UL Recognized MIL-STD-461 compliant Typical Applications The JQE100 is deployed in fault-tolerant configurations, nuclear installations, and U.S. Department of Defense systems where reliability and noise performance are critical. Compatibility & Integration Analog and digital interfaces support remote control and monitoring. External current-sense capability allows integration into custom power architectures.

JQE100 Characteristics / Specifications

PARAMETER	VALUE
Model	JQE 100
Manufacturer	Kepco Inc
Instrument Type	Linear programmable DC power supply 100 V family
Series	JQE
Alias	JQE100; JQE 100; JQE 100-1M; JQE 100-2.5M; JQE 100-5M; JQE 100-10M
Rated Output Voltage	0 to 100 Vdc
JQE 100 1 A	0 to 1 A; series R 5 mohm; series L 2 uH; shunt R 500 kohm; shunt C 110 uF; 2.1 A in; quarter rack
JQE 100 2.5 A	0 to 2.5 A; series R 2 mohm; series L 1 uH; shunt R 200 kohm; shunt C 600 uF; 4.5 A in; half rack
JQE 100 5 A	0 to 5 A; series R 1.25 mohm; series L 1 uH; shunt R 100 kohm; shunt C 600 uF; 8.4 A in; half rack
JQE 100 10 A	0 to 10 A; series R 0.62 mohm; series L 1 uH; shunt R 50 kohm; shunt C 2.2 k uF; 17.0 A in; full rack
Topology	series pass transistor voltage stabilizer with current limiting
AC Voltage	105 to 125 or 210 to 250 Vac user selectable
AC Frequency	47 to 65 Hz
Source Effect Voltage	less than 0.0005 percent
Load Effect Voltage	less than 0.005 percent
Ripple RMS	less than 0.2 mV
Ripple PP	less than 1.0 mV
Isolation	500 Vdc or peak output to ground
Leakage RMS	less than 5 uA rms at 115 Vac
Local Voltage Control	10 turn precision rheostat
Remote Analog Voltage	1000 ohm per volt or 0 to 1 mA
Operating Temperature Current	0 to 71 C at 0 to 100 percent of rating

PARAMETER	VALUE
Meter Analog	3 percent of full scale (M suffix)
Related ATE	ATE 100-10M programmable current 1000 W Notes Specs from Kepco JQE model table 100 V rows. Confirm current suffix (1, 2.5, 5, or 10 A) and M versus DM meters.
Operating temperature	Current: 0 to 71 C at 0 to 100 percent of rating

JQE100 Specifications

PARAMETER	VALUE
Kepco JQE 100 Linear DC Power Supply 0 to 100 V Family	Overview
Applications	Quiet 100 V linear lab and systems DC
Key Features	Four published 100 V current ratings
Technical Specifications	Model: JQE 100
Notes	Specs from Kepco JQE model table 100 V rows. Confirm current suffix (1, 2.5, 5, or 10 A) and M versus DM meters.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Current: 0 to 71 C at 0 to 100 percent of rating
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Operating Temperature Current	0 to 71 C at 0 to 100 percent of rating
Meter Analog	3 percent of full scale (M suffix)
Related ATE	ATE 100-10M programmable current 1000 W Notes Specs from Kepco JQE model table 100 V rows. Confirm current suffix (1, 2.5, 5, or 10 A) andMversus DM meters.

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	
Specifications	
PARAMETER	VALUE
Model	JQE 100
Manufacturer	Kepeco Inc
Instrument Type	Linear programmable DC power supply 100 V family
Specifications	
PARAMETER	VALUE
Series	JQE
Alias	JQE100; JQE 100; JQE 100-1M; JQE 100-2.5M; JQE 100-5M; JQE 100-10M
Rated Output Voltage	0 to 100 Vdc
Specifications	
PARAMETER	VALUE
JQE 100 1 A	0 to 1 A; series R 5 mohm; series L 2 uH; shunt R 500 kohm; shunt C 110 uF; 2.1 A in; quarter rack
JQE 100 2.5 A	0 to 2.5 A; series R 2 mohm; series L 1 uH; shunt R 200 kohm; shunt C 600 uF; 4.5 A in; half rack
JQE 100 5 A	0 to 5 A; series R 1.25 mohm; series L 1 uH; shunt R 100 kohm; shunt C 600 uF; 8.4 A in; half rack
Specifications	
PARAMETER	VALUE
JQE 100 10 A	0 to 10 A; series R 0.62 mohm; series L 1 uH; shunt R 50 kohm; shunt C 2.2 k uF; 17.0 A in; full rack
Topology	series pass transistor voltage stabilizer with current limiting
AC Voltage	105 to 125 or 210 to 250 Vac user selectable
Specifications	
PARAMETER	VALUE
AC Frequency	47 to 65 Hz

PARAMETER	VALUE
Source Effect Voltage	less than 0.0005 percent
Load Effect Voltage	less than 0.005 percent

Specifications

PARAMETER	VALUE
Ripple RMS	less than 0.2 mV
Ripple PP	less than 1.0 mV
Isolation	500 Vdc or peak output to ground

Specifications

PARAMETER	VALUE
Leakage RMS	less than 5 uA rms at 115 Vac
Local Voltage Control	10 turn precision rheostat
Remote Analog Voltage	1000 ohm per volt or 0 to 1 mA

Specifications

PARAMETER	VALUE
Operating Temperature Current	0 to 71 C at 0 to 100 percent of rating
Meter Analog	3 percent of full scale (M suffix)
Related ATE	ATE 100-10M programmable current 1000 W

Notes

Specs from Kepco JQE model table 100 V rows. Confirm current suffix (1, 2.5, 5, or 10 A) andMversus DM meters.

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

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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.