


Aumictech

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

KEPCO

Kepco JQE 55-10

Instrument Type: Linear Programmable DC Power Supply Alias: JQE 55-10; JQE 55-10M;
 JQE55-10; Kepco JQE 55-10 Topology: series-pass transistor voltage stabilizer with current
 limiting AC Voltage: 105-125 or 210-250 Vac user selectable Alias: JQE 55-10; JQE 55-10M;
 JQE55-10; Kepco JQE 55-10 Topology: series-pass transistor voltage stabilizer with current
 limiting AC Voltage: 105-125 or 210-250 Vac user selectable Max Input Current: 9.0 A at 125
 Vac (JQE 55-10M table)



MODEL

Kepco JQE 55-10

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

JQE 55-10

LISTING

<https://aumictechlabs.com/products/jqe-55-10-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Kepco JQE 55-10 is a single-output programmable DC power supply delivering 0-55 Vdc at 0-10 Adc with 550 W maximum output. Engineered for precision and stability, it combines tight load and line regulation with low ripple and noise, making it ideal for laboratory benches, production testing, and automated system integration. Voltage and current control via multi-turn potentiometer or external analog input (0-5 V or 0-10 V) enable seamless integration into test frameworks. Remote sensing compensates up to 0.5 V per lead, while response time under 50 microseconds to 50% load steps ensures transient performance. Operating across 0°C to 65°C with temperature coefficients of 15 ppm/°C (voltage) and 25 ppm/°C (current), the unit maintains output stability after warm-up drift below 0.01% of rated output. Selectable input voltage (105-125

V ac or 210–250 V ac) at 45–63 Hz accommodates global installations. Analog programming resolution reaches 0.05% of full scale via external voltage control, with dedicated voltage and current monitoring outputs (0–5 Vdc or 0–10 Vdc) for feedback and data logging. Ripple and noise remain below 1 mVrms and 5 mVpeak-to-peak respectively. Load regulation holds to 0.01% (voltage) and 0.02% (current); line regulation to 0.005% (voltage) and 0.01% (current). Typical efficiency of 75% at full load and power factor exceeding 0.8 minimize thermal dissipation in confined spaces. Technical Specifications Output: Single, 0–55 Vdc, 0–10 Adc (550 W max) Load Regulation: <0.01% voltage, <0.02% current Line Regulation: <0.005% voltage, <0.01% current Ripple & Noise: <1 mVrms, <5 mVpeak-to-peak Temperature Coefficient: 15 ppm/°C (voltage), 25 ppm/°C (current) Warm-up Drift: <0.01% after 30 minutes Response Time: 0.8 at full load Efficiency: ~75% at full load Key Features Analog programming via potentiometer (0.1% resolution) or external voltage (0.05% resolution) Voltage Monitor output: 0–5 Vdc or 0–10 Vdc proportional Current Monitor output: 0–5 Vdc proportional Input impedance: 10 k Ω $\pm$ 5% (voltage), 1 k Ω $\pm$ 5% (current) Multi-turn controls for fine adjustment Typical Applications Research and development testing Production test stands Device characterization and validation Automated system integration Laboratory measurement systems Compatibility & Integration Analog control and monitoring interfaces support direct integration with ATE frameworks, data acquisition systems, and instrumentation controllers via standard 0–5 V and 0–10 V signal conditioning.

JQE55 Characteristics / Specifications

PARAMETER	VALUE
Model	JQE 55-10
Manufacturer	Kepco, Inc.
Instrument Type	Linear Programmable DC Power Supply
Series	JQE
Alias	JQE 55-10; JQE 55-10M; JQE55-10; Kepco JQE 55-10
Rated Output Voltage	0 to 55 Vdc
Rated Output Current	0 to 10 A
Rated Power Class	550 W (55 V x 10 A)
Package	250-500 W class half-rack JQE
Topology	series-pass transistor voltage stabilizer with current limiting
AC Voltage	105-125 or 210-250 Vac user selectable
AC Frequency	47-65 Hz
Max Input Current	9.0 A at 125 Vac (JQE 55-10M table)
Voltage Mode Series R	275 uohm
Voltage Mode Series L	1 uH
Current Mode Shunt R	50 kohm
Current Mode Shunt C	2.1 k uF
Source Effect Voltage	less than 0.0005% for 105-125/210-250 Vac
Load Effect Voltage	less than 0.005% no load to full load
Ripple RMS	less than 0.2 mV
Time Drift Voltage	less than 0.01% class (8 hour JQE family)
Temperature Coefficient Voltage	less than 0.01% perC Isolation: 500 Vdc or peak output to ground
Leakage RMS	less than 5 uA rms at 115 Vac output to ground
Leakage Peak	less than 50 uA p-p at 115 Vac
Series Connection	500 V max off ground

PARAMETER	VALUE
Parallel	automatic current sharing, master-slave
Error Sense	0.5 V per load wire static allowance
Local Voltage Control	10-turn precision rheostat
Remote Analog Voltage	1000 ohm per volt or 0 to 1 mA
Remote Digital	SN or SNR 12-bit listen-only
Local Current	multiturn pot; 10%-105% Io max class (not remotely programmable on standard JQE)
Meter Analog	3% of full scaleVand I (M suffix)
Meter Digital	1% FS voltage, 1.5% FS current (DM suffix)
Operating Temperature Current	0 to 71 C at 0-100% of current rating
MIL STD	MIL-STD-461 compliant family
Agency	UL recognized; CE LVD/EMC/RoHS 2 class JQE
Operating temperature	Current: 0 to 71 C at 0-100% of current rating

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Current: 0 to 71 C at 0-100% of current rating
Operating Temperature	Current: 0 to 71 C at 0-100% of current rating
Operating Temperature Current	0 to 71 C at 0-100% of current rating
MIL STD	MIL-STD-461 compliant family
Agency	UL recognized; CE LVD/EMC/RoHS 2 class JQE

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 55-10
Manufacturer	Kepco, Inc.
Instrument Type	Linear Programmable DC Power Supply
Specifications	
PARAMETER	VALUE
Series	JQE
Alias	JQE 55-10; JQE 55-10M; JQE55-10; Kepco JQE 55-10
Rated Output Voltage	0 to 55 Vdc
Specifications	
PARAMETER	VALUE
Rated Output Current	0 to 10 A
Rated Power Class	550 W (55 V x 10 A)
Package	250-500 W class half-rack JQE
Specifications	
PARAMETER	VALUE
Topology	series-pass transistor voltage stabilizer with current limiting
AC Voltage	105-125 or 210-250 Vac user selectable
AC Frequency	47-65 Hz
Specifications	
PARAMETER	VALUE
Max Input Current	9.0 A at 125 Vac (JQE 55-10M table)
Voltage Mode Series R	275 uohm
Voltage Mode Series L	1 uH

Specifications

PARAMETER	VALUE
Current Mode Shunt R	50 kohm
Current Mode Shunt C	2.1 k uF
Source Effect Voltage	less than 0.0005% for 105-125/210-250 Vac

Specifications

PARAMETER	VALUE
Load Effect Voltage	less than 0.005% no load to full load
Ripple RMS	less than 0.2 mV
Time Drift Voltage	less than 0.01% class (8 hour JQE family)

Specifications

PARAMETER	VALUE
Temperature Coefficient Voltage	less than 0.01% perC Isolation: 500 Vdc or peak output to ground
Leakage RMS	less than 5 uA rms at 115 Vac output to ground
Leakage Peak	less than 50 uA p-p at 115 Vac

Specifications

PARAMETER	VALUE
Series Connection	500 V max off ground
Parallel	automatic current sharing, master-slave
Error Sense	0.5 V per load wire static allowance

Specifications

PARAMETER	VALUE
Local Voltage Control	10-turn precision rheostat
Remote Analog Voltage	1000 ohm per volt or 0 to 1 mA
Remote Digital	SN or SNR 12-bit listen-only

Specifications

PARAMETER	VALUE
Local Current	multiturn pot; 10%-105% Io max class (not remotely programmable on standard JQE)
Meter Analog	3% of full scaleVand I (M suffix)
Meter Digital	1% FS voltage, 1.5% FS current (DM suffix)

Specifications

PARAMETER	VALUE
Operating Temperature Current	0 to 71 C at 0-100% of current rating
MIL STD	MIL-STD-461 compliant family
Agency	UL recognized; CE LVD/EMC/RoHS 2 class JQE

Optional Suffix L: locking screwdriver voltage controls

Optional OVP: VP/OVP with coarse, fine, and delay on equipped units

Notes

Specs from Kepco JQE series model table (JQE 55-10M: 0-55 V, 0-10 A, 275 uohm, 1 uH, 50 kohm, 2.1 k uF, 9.0 A in) and JQE general specifications (less than 0.2 mV rms, 0.0005%/0.005%, 105-125/210-250 Vac). Confirm Mvs DM meters and 115 vs 230 Vac selection.

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>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.