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Data Sheet

August 13, 2026

KEPCO

Kepco ABC-40-0.5

The Kepco ABC-40-0.5 is a single output, 40W, 0-40V, 0-0.5A, Programmable DC Power Supply. It provides stable, low-noise DC power suitable for a wide variety of applications. It features voltage and current programmability, making it adaptable to different testing and powering needs. Protection features include overvoltage and overcurrent protection.



MODEL Kepco ABC-40-0.5	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU ABC-40-0.5	LISTING https://aumictechlabs.com/products/abc-40-0-5-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Kepco ABC-40-0.5 is a programmable DC power supply delivering stable, low-noise output across a 0-40V, 0-0.5A range. Built for precision bench and systems integration work, this single-output unit combines field-proven regulation with extensive protection and remote programming capabilities. Voltage mode line and load regulation hold $\pm 0.05\%$ or ± 1 mV, while eight-hour stability reaches 0.001% in voltage mode. Peak-to-peak ripple and noise stays below 0.02%, ensuring clean power for sensitive circuits and test applications. Technical Specifications Output voltage: 0-40V DC Output current: 0-0.5A DC Power rating: 40W Line regulation (voltage mode): $<0.05\%$ or ± 1 mV Load regulation (voltage mode): $<0.05\%$ or ± 1 mV Line regulation (current mode): $<0.1\%$ at rated sample Load regulation (current mode): $<0.5\%$ at rated ramp Voltage stability (8-hour): 0.001% Current stability (8-hour): 0.01% RMS ripple and noise: 0.007% Peak-to-peak ripple and noise: 0.02% Voltage recovery (step load): <50 microseconds Remote error

sensing: Compensates up to 0.5V drop per output lead Input: 105-125V AC or 210-250V AC selectable; 50-400 Hz, single phase Isolation voltage: 500V to chassis Dimensions: 4.875" H × 5.125" W × 9.250" D Key Features Programmable voltage and current outputs with 0.05% control resolution (10-turn voltage control) Overvoltage and overcurrent protection, both user-programmable Non-volatile memory stores up to 40 setting combinations Keyboard data entry and external voltage/current signal control (common negative) Current limiting via single-turn panel adjustment: 25% to 150% of rated current Automatic crossover between voltage and current regulation modes Remote sensing terminals and front-panel binding posts for local measurement Convection cooling; no forced-air cooling required Negligible overshoot on turn-on/off above 25% voltage setting Compatibility & Integration GPIB (IEEE 488.2) and SCPI command support VISA driver provided Rear-mounted barrier strip terminals for programming and sensing Front binding posts for local output and sensing connections

ABC4005 Characteristics / Specifications

PARAMETER	VALUE
Model	ABC 40-0.5
Manufacturer	Kepco Inc
Instrument Type	Linear analog programmable DC power supply
Series	ABC
Alias	ABC-40-0.5; ABC 40-0.5; ABC40-0.5M
Rated Output Voltage	0 to 40 Vdc (bipolar plus/minus 40 V if ABC bipolar faceplate)
Rated Output Current	0 to 0.5 A
Rated Power	20 W
Stabilizer	voltage/current ABC family (crossover on CV/CC ABC)
Meters	analogMor digital DM per suffix
Voltage Control	10 turn class
Remote Analog	ABC analog program inputs
AC Voltage Class	105 to 125 / 210 to 250 Vac
AC Frequency Class	47 to 65 Hz
Isolation Class	500 Vdc output to ground
Ripple Class	millivolt rms linear ABC
Form	compact ABC bench/module
Related ABC	ABC 10-0.5 class 10 V 0.5 A
Related MSK	MSK 40-2.5M 0 to 40 V 0 to 2.5 A (100 W)
Related BOP	BOP 50-2M plus/minus 50 V if 4-quadrant needed
Polarity	confirm unipolar versus bipolar on silk
Cooling	convection ABC size
Operating Temperature	bench linear class Notes Identity from Kepco ABC 40-0.5 rating (0-40 V, 0-0.5 A, 20 W). Confirm M/DM suffix and whether the installed ABC is bipolar. Do not assume BOP 4-quadrant specs.

ABC4005 Specifications

PARAMETER	VALUE
Applications	40 V / 0.5 A compact linear DC
Key Features	20 W ABC envelope (40 V times 0.5 A)
M or DM meters per suffix	Automatic crossover on ABC CV/CC models
Technical Specifications	Model: ABC 40-0.5

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	bench linear class
Operating Temperature	bench linear class

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 Class	millivolt rms linear ABC
Form	compact ABC bench/module
Related ABC 10	ABC 10-0.5 class 10 V 0.5 A

Specifications

PARAMETER	VALUE
Related MSK 40	MSK 40-2.5M 0 to 40 V 0 to 2.5 A (100 W)
Related BOP	BOP 50-2M plus/minus 50 V if 4-quadrant needed
Polarity	confirm unipolar versus bipolar on silk

Cooling: convection ABC size

Operating Temperature: bench linear class

Notes

Identity from Kepco ABC 40-0.5 rating (0-40 V, 0-0.5 A, 20 W). Confirm M/DM suffix and whether the installed ABC is bipolar. Do not assume BOP 4-quadrant specs.

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