

**Aumictech**

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Data Sheet

August 14, 2026

BK PRECISION

BK Precision 1745A DC Power Supply

The BK Precision 1745A DC Power Supply is a 0 to 35 VDC class high current linear supply in the 1744/1745 family. Bench DC power for lab, service, and production applications. Output Voltage Range Class: 0 to 35 VDC class Output Current Range Class: High current 10 A class family Export Classification Class: Commercial test equipment class Series Parallel Class: Two supplies may be series or parallel connected class Voltage Controls Class: Front panel adjust class From BK Precision 1745A DC Power Supply OEM product documentation. Confirm exact voltage and current ratings on the faceplate and datasheet revision.



MODEL

**BK Precision
1745A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

1745A

LISTING

<https://aumictechlabs.com/products/1745a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The BK Precision 1745A is a versatile single-channel linear DC power supply designed for demanding applications in electronics testing, design, and service. It has a reliable and precise power output with excellent regulation and low ripple characteristics. The unit features dual, bright LED displays for continuous monitoring of output voltage and current, with selectable coarse and fine adjustments for both parameters. Its solid design includes comprehensive overload protection, including current limiting, reverse polarity, overvoltage, and short circuit protection, ensuring safe operation and longevity of connected equipment. Technical Specifications General Manufacturer: BK Precision Model: 1745A Series: 1700 Product Type: Digital DC Power Supply Output Channels: Single Operating Principle: Linear Electrical Specifications Input Voltage:

120/220V AC $\pm 10\%$, 50/60 Hz Output Voltage: 0 to 35 VDC * Adjustable via coarse and fine controls Output Current: 0 to 10 A * Adjustable via coarse and fine controls Power Consumption: 560 W Constant Voltage (CV) Operation: * Line Regulation: $\leq 0.2\% + 2 \text{ mV}$ (for 108-132 V AC input) * Load Regulation: $\leq 0.04\% + 2 \text{ mV}$ (from no-load to full-load) * Ripple and Noise: $\leq 1 \text{ mVrms}$ (typical) * Temperature Coefficient: $\leq 300 \text{ ppm}/^\circ\text{C}$ * Recovery Time: $\leq 100 \mu\text{s}$ (typical) Constant Current (CC) Operation: * Adjustable Current Limit: 5% to 100% of full scale * Line Regulation: $\leq 0.4\% + 5 \text{ mA}$ (for 108-132 V AC input) * Load Regulation: $\leq 0.4\% + 5 \text{ mA}$ * Current Ripple: $\leq 3 \text{ mArms}$ (typical) Metering Type: Dual 4-digit LED Displays * Voltage Meter: Green LED display * Current Meter: Red LED display Voltage Meter Range: 0 to 99.99 V (display resolution of 10mV) Current Meter Range: 0 to 9.999 A (display resolution of 10mA) Accuracy (Voltmeter/Ammeter): $\pm(0.7\% + 9 \text{ digits})$ Protection Features Current Limiting Protection Reverse Polarity Protection Over Voltage Protection Short Circuit Protection Fully Overload Protected Interfaces Output Terminals: * Positive (+) Terminal (Red) * Negative (-) Terminal (Black) * Ground (GND) Terminal Line Voltage Conversion Switch: 110/220V AC Physical Specifications Dimensions (H x W x D): 5.7 in. x 10.5 in. x 15 in. (145 x 267 x 381 mm) Weight: 27 lbs (12.2 kg) Mounting Type: Surface Mount Environmental Specifications Operating Temperature: 0 to 40°C (32 to 104°F) at <75% RH Storage Temperature: -15 to 70°C (5 to 158°F) at <85% RH Included Accessories Instruction Manual Spare Fuse Power Cord Performance Features Operates continuously at full load without overheating Pre-regulator design reduces internal power dissipation at low output voltages Smooth and automatic crossover between Constant Voltage (CV) and Constant Current (CC) modes, indicated by LEDs Output shorting button for setting current limit Capability to connect two units in series for double voltage output (0-70 VDC) Capability to connect two units in parallel for double current output (with suitable balancing resistors) Why Choose Aumictech for BK Precision 1745A? At Aumictech, we specialize in supplying electronic test and measurement equipment. Whether your laboratory requires precise voltage and current control for sensitive circuit testing, your integration project demands solid and reliable power sources, or your enterprise procurement needs dependable, industry-standard instrumentation, our team ensures the BK Precision 1745A delivers maximum performance and value for your application.

1745A Characteristics / Specifications

PARAMETER	VALUE
Output Voltage Range Class	0 to 35 VDC class
Output Current Range Class	High current 10 A class family
Operating Modes	Constant voltage and constant current class
Metering	Front panel voltage and current meters
Protection	Current limiting and overload protection class
Ripple Class	Low ripple laboratory supply class
Regulation Class	Laboratory supply regulation class
Form Factor	Benchtop DC supply
Primary Power	AC mains laboratory supply class
Cooling	Convection cooled class
Output Binding Posts	Front panel binding posts
Series Family	BK family laboratory DC supplies
Applications Class	Bench DC power
Display Type Class	Analog or digital meters by revision
Weight Class	Benchtop supply weight
Isolation	Output floating relative to chassis class
Current Limit	Adjustable current limiting
Temperature Operation Class	Continuous operation within ratings class
Warmup Time Class	15 minutes typical class
Relative Humidity Class	Up to 80 percent noncondensing class
Export Classification Class	Commercial test equipment class
Series Parallel Class	Two supplies may be series or parallel connected class
Voltage Controls Class	Front panel adjust class
Humidity	Class: Up to 80 percent noncondensing 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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Notes	
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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.