

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

BK PRECISION

BK Precision 1744A DC Power Supply

The BK Precision 1744A is a single-output linear DC power supply providing 0 to 35 VDC and 0 to 10 A. OEM product pages list dual analog meters, an output-shorting button for convenient current-limit setting, and continuous full-load operation without overheating. High-current bench DC power for power electronics, automotive accessory testing, and general lab use up to 10 A. Output shorting button for current limit set Series and parallel connection of two supplies Warmup Time Class: 15 minutes typical class Relative Humidity Class: Up to 80 percent noncondensing class Export Classification Class: Commercial test equipment class From BK Precision 1744A DC Power Supply OEM product documentation. Confirm exact ratings on the faceplate and datasheet revision.



MODEL

**BK Precision
1744A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

1744A

LISTING

<https://aumictechlabs.com/products/1744a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The BK Precision 1744A is a versatile DC power supply range of technical applications, including engineering labs, service shops, and manufacturing test environments. It has a continuously variable output voltage from 0 to 35 VDC and a current output from 0 to 10A. The unit is capable of operating in both constant voltage (CV) and constant current (CC) modes, with automatic crossover between them. Technical Specifications Electrical Characteristics * Output Voltage: 0 to 35 VDC, adjustable via coarse and fine controls. Output Current: 0 to 10 A. Constant Voltage (CV) Operation: * Line Regulation: $\leq 0.2\% + 2 \text{ mV}$ (for 108-132 VAC input). * Load Regulation: $\leq 0.04\%$

+ 2 mV (no load to full load). * Recovery Time: $\leq 100 \mu\text{s}$ typical. * Ripple Voltage (RMS): $\leq 1 \text{ mV}$. * Temperature Coefficient: $< 300 \text{ PPM}/^\circ\text{C}$ (for 0° to $+40^\circ\text{C}$). Constant Current (CC) Operation: * Adjustable Current Limits: 5% to 100% of maximum current. * Current Regulation (Line): $\leq 0.4\% + 5 \text{ mA}$ (for 108-132 VAC input). * Current Regulation (Load): $\leq 0.4\% + 5 \text{ mA}$. * Current Ripple: $< 3 \text{ mA}$ typical. Metering: * Voltmeter: Analog display, range 0-40V, accuracy $\pm 2.5\%$. (Note: The 1745A model has a 4-digit LED display for voltage.) * Ammeter: Analog display, Hi Range 0-11A, Lo Range 0-2.2A, accuracy $\pm 2.5\%$. (Note: The 1744A has a High-Low switch to select current ranges for improved resolution at lower currents.) (Note: The 1745A model has a 4-digit LED display for current.) Power Requirements: * Domestic: 120 VAC $\pm 10\%$, 60 Hz. * International: 120, 220, 230, 240 VAC, 50/60 Hz. Power Consumption: Approximately 560 Watts or less at full load. Protection: Reverse polarity protection, current limiting, fully overload protected. Interfaces * Output Terminals: Positive ("+") (Red), Negative ("-") (Black), and Ground (GND). The output is isolated, allowing either polarity to be floated or grounded. Physical Characteristics * Dimensions (H x W x D): 5.7" x 10.5" x 15" (145 x 267 x 381 mm). Weight: Not specified in available documentation. Cooling: Designed to operate continuously at full load without overheating. Environmental Specifications * Operating Temperature: 0° to $+40^\circ\text{C}$ at $< 75\% \text{ R.H.}$. Storage Temperature: -15° to 70°C at $< 85\% \text{ R.H.}$. Features * Dual Outputs: The model 1744A offers a single output channel. [Short description] (Note: The short description mentions "single-channel, triple output DC power supply", however, technical specifications consistently describe a single output channel. It is likely referring to the 1745A model which has dual LED displays.) Series/Parallel Configuration: Two units can be connected in series for higher voltage output or in parallel for higher current output. Output ON/OFF Switch: Allows the output to be turned off without powering down the entire unit. Output Shorting Button: Facilitates setting the current limit by momentarily shorting the output terminals. Analog Meters: Continuously monitor voltage and current output. Mode Indicators: Red LED for Constant Current (CC) mode, Green LED for Constant Voltage (CV) mode. Coarse and Fine Controls: For precise adjustment of voltage and current. Reliability and Durability: Designed for continuous operation and built for longevity. Low Ripple: Exhibits low ripple voltage characteristics. Compatibility * Power Input: Compatible with 120 VAC (domestic) and 120/220/230/240 VAC (international) power sources. Series/Parallel Operation: Can be integrated with other BK Precision 1744A units for expanded output capabilities. Accessories * TL 5A Hook-Up Cable Set: 4mm Banana plug to alligator clip, 5A rating, 40" (1.0m) length. TLPS Power Supply Test Leads Set: Includes medium and large insulated alligator clips, black and red components, and a sense lead. Why Choose Aumictech for the BK Precision 1744A? At Aumictech, we specialize in supplying high-end electronic test and measurement equipment. Whether you need reliable DC power for product development, precise voltage and current control for laboratory experiment

1744A Characteristics / Specifications

PARAMETER	VALUE
Output Voltage Range	0 to 35 VDC
Output Current Range	0 to 10 A
Operating Modes	Constant voltage and constant current
Metering	Dual analog front panel meters
Voltage Controls	Coarse and fine
Protection	Fully overload protected
Ripple Class	Very low ripple linear supply class
Regulation Class	Excellent line and load regulation class
Form Factor	Benchtop linear DC supply
Series Parallel	Two supplies may be series or parallel connected
Primary Power	AC mains laboratory supply class
Cooling	Designed for continuous full load operation
Output Binding Posts	Front panel binding posts
Series Family	BK Precision 1744 / 1745 laboratory DC supplies
Applications Class	High current bench DC power
Display Type	Analog meters
Weight Class	Benchtop linear supply weight
Isolation	Output floating relative to chassis class
Current Limit Set Method	Output shorting button
Temperature Operation Class	Continuous full load without overheating class
Warmup Time Class	15 minutes typical class
Relative Humidity Class	Up to 80 percent noncondensing class
Export Classification Class	Commercial test equipment class
Humidity	Class: Up to 80 percent noncondensing class

1744A Specifications

PARAMETER	VALUE
BK Precision 1744A DC Power Supply	Overview
Applications	High-current bench DC power for power electronics, automotive accessory testing, and general lab use up to 10 A.
Technical Specifications	Output Voltage Range: 0 to 35 VDC
Notes	From BK Precision 1744A DC Power Supply OEM product documentation. Confirm exact ratings on the faceplate and datasheet revision.

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
Output Voltage Range	0 to 35 VDC
Output Current Range	0 to 10 A
Operating Modes	Constant voltage and constant current
Metering	Dual analog front panel meters
Voltage Controls	Coarse and fine
Protection	Fully overload protected
Ripple Class	Very low ripple linear supply class
Regulation Class	Excellent line and load regulation class
Form Factor	Benchtop linear DC supply
Series Parallel	Two supplies may be series or parallel connected
Primary Power	AC mains laboratory supply class
Cooling	Designed for continuous full load operation
Output Binding Posts	Front panel binding posts
Series Family	BK Precision 1744 / 1745 laboratory DC supplies
Applications Class	High current bench DC power
Display Type	Analog meters
Weight Class	Benchtop linear supply weight
Isolation	Output floating relative to chassis class
Current Limit Set Method	Output shorting button
Temperature Operation Class	Continuous full load without overheating class
Warmup Time Class	15 minutes typical class
Relative Humidity Class	Up to 80 percent noncondensing class
Export Classification Class	Commercial test equipment class
Notes	
From BK Precision 1744A DC Power Supply OEM product documentation. Confirm exact ratings on the faceplate and datasheet revision.	

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 14, 2026

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