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Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

BK PRECISION

BK Precision 1746A DC Power Supply

The BK Precision 1746A DC Power Supply is a linear multi-ampere laboratory DC supply. Bench DC power for lab, service, and production applications. Output Voltage Range Class: Tens of volts DC class per 1746A datasheet Output Current Range Class: Multi ampere class per 1746A datasheet Bench DC power for lab, service, and production applications. Output Voltage Range Class: Tens of volts DC class per 1746A datasheet Output Current Range Class: Multi ampere class per 1746A datasheet Operating Modes: Constant voltage and constant current class



MODEL

**BK Precision
1746A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

1746A

LISTING

<https://aumictechlabs.com/products/1746a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The BK Precision 1746A is a 0-16 VDC, 0-10 A analog DC power supply designed for laboratory and testing applications. It has constant voltage or constant current operation with automatic crossover, adjustable voltage and current controls, and built-in metering for monitoring output parameters. The unit is protected against overload and reverse polarity, ensuring the safety of both the power supply and the connected device. Technical Specifications * Model: BK Precision 1746A Output Voltage: 0 to 16 VDC * Continuously adjustable with coarse and fine controls. Output Current: * High Range: 0 to 10 A * Low Range: 0 to 2 A * Adjustable current limit from 5% to 100% of maximum output current. Power Output: 180 W maximum (calculated: 16V * 10A = 160W, however short-duration peak power may exceed this) Regulation: * Line Regulation: ≤

(0.2% + 2 mV) * Load Regulation: $\leq (0.04\% + 2 \text{ mV})$ Ripple Voltage: Very low * Typical Peak-to-Peak: 2 mV * Typical RMS: 1 mV Current Regulation: (Constant Current Mode) * Line Regulation: Not specified * Load Regulation: Not specified Current Ripple: 3 mA typical Metering: * Two large, easy-to-read analog meters continuously monitor output voltage and current. * Voltmeter: 4-digit Green LED Display, Range 0 to 99.99 V, Accuracy (0.5% + 9 digits) * Ammeter: 4-digit Red LED Display Operating Modes: * Constant Voltage (CV): Green LED indicator. * Constant Current (CC): Red LED indicator. * Automatic and smooth crossover between CV and CC modes. Protection: * Overload Protection: Fully adjustable current limiting. * Reverse Polarity Protection: Prevents damage from external reverse voltage. Series/Parallel Operation: * Two supplies can be connected in series to double voltage output. * Two supplies can be connected in parallel to double current output. Cooling: Operates continuously at full load without overheating. Requires sufficient air space around the heat sink. Input Power: * Mains Voltage: 115 V RMS or 230 V RMS selectable. * Line Voltage Range: 108-132 V AC Dimensions: * Width: 10.5 in * Height: 5.7 in * Length: 15 in * Weight: 20 lbs Interfaces * Output Terminals: * Positive (+) Terminal (Red) * GND Terminal (Earth and chassis ground) AC Input: Polarized 3-wire AC outlet connection required. Physical Characteristics * Construction: Reliable and durable design. Controls: Coarse and fine voltage controls. Coarse and fine current controls for limiting/setting. Indicators: LED indicators for CV/CC mode and power ON. Chassis Ground: Connected via the ground conductor of the AC line power cable for safety. Compatibility * Replaced by: The 1746A has been replaced by the 1746B model. Accessories: * TL 5A: 5A Hook-Up Cable Set (4mm Banana plug to alligator clip, 40" length). * TLPS: Power Supply Test Leads Set (includes various alligator clips and banana plug adapters). Why Choose Aumictech for BK Precision 1746A? At Aumictech, we specialize in supplying high-end power supply equipment. Whether you need reliable voltage and current outputs, precise control for sensitive circuits, or solid protection features, our team ensures the BK Precision 1746A delivers maximum performance for your application.

1746A Characteristics / Specifications

PARAMETER	VALUE
Output Voltage Range Class	Tens of volts DC class per 1746A datasheet
Output Current Range Class	Multi ampere class per 1746A datasheet
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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PARAMETER	VALUE
Output Voltage Range Class	Tens of volts DC class per 1746A datasheet
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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
Notes	
From BK Precision 1746A DC Power Supply OEM product documentation. Confirm exact voltage and current 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

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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.