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Data Sheet

August 14, 2026

BK PRECISION

BK Precision 1790 High Current DC Power Supply

BK Precision 1790 High Current DC Power Supply The BK Precision 1790 High Current DC Power Supply is a high-current DC laboratory power supply. Bench DC power for lab, service, and production applications. Output Voltage Range Class: Low to moderate DC volts class per 1790 datasheet The BK Precision 1790 High Current DC Power Supply is a high-current DC laboratory power supply. Bench DC power for lab, service, and production applications. Output Voltage Range Class: Low to moderate DC volts class per 1790 datasheet Output Current Range Class: High current tens of amperes class



MODEL

BK Precision 1790

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1790

LISTING

<https://aumictechlabs.com/products/1790-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The BK Precision 1790 is a, programmable DC power supply designed for applications requiring stable and precise power. It has both constant voltage (CV) and constant current (CC) operation, with excellent regulation and low noise output, making it suitable for sensitive testing environments, particularly in the telecommunications industry. The unit works with bench or standard 19-inch rack operation and features a user-friendly interface with front panel controls for adjusting voltage and current. Technical Specifications General Model: BK Precision 1790 Product Type: High Current Linear DC Power Supply Output Power: 640 Watts Rack Mountable: Yes (standard 19-inch rack) Operation Mode: Constant Voltage (CV) and Constant Current (CC) Noise and Ripple: * CV Mode: < 1mV rms (20 Hz - 20 MHz) * CC Mode: 3 mA rms (20 Hz - 20 MHz)

Stability (8 hours after warm-up): * CV Mode: $\pm 0.2\% \pm 10 \text{ mV}$ * CC Mode: $\pm 0.5\% \pm 10 \text{ mA}$
Operating Temperature: 32 to 104 °F (0 to 40 °C) Input Voltage: 120 VAC $\pm 10\%$, 47-63 Hz (Note: 230 VAC input requires modification, requested at time of order for model 1790EXD) Dimensions (W x H x D): 19" x 5.24" x 15.75" (483 x 133 x 400 mm) Output Characteristics Voltage Output: 0-32 VDC Current Output: 0-20 ADC Constant Voltage (CV) Mode Line Regulation: $< \pm 0.01\% \pm 2 \text{ mV}$ Load Regulation: $< \pm 0.01\% \pm 2 \text{ mV}$ Response Time: 100 μsec to within 10mV of set output voltage for load change from 10% to 90% Constant Current (CC) Mode Line Regulation: $< \pm 0.05\% \pm 10 \text{ mA}$ Load Regulation: $< \pm 0.05\% \pm 10 \text{ mA}$ Features and Functionality * CV/CC Operation: Automatically crosses over from constant voltage to constant current mode and vice versa if output exceeds preset limits. Remote Sensing: Compensates for voltage drop in load leads. External Analog Programming Interface: Allows for remote control and automation of settings. Presetting Output Limits: Facility for presetting the output voltage and maximum load current limits. Output ON/OFF Switch: Separate switch for controlling the DC output. Panel Meters: Front panel LED meters for monitoring voltage and current. Output Terminal Flexibility: Either positive or negative output terminal may be grounded or floated up to a maximum of $\pm 300 \text{ VDC}$ above ground. Low Noise Output: Critical for telecom applications where power supply noise can interfere with testing. Interfaces * Front Panel: * Load Terminals * Remote Sense Terminals * Voltage and Current adjustment controls * LED Meters for Voltage and Current indication * Output ON/OFF switch * LIMIT switch for presetting voltage and current Physical Characteristics * Form Factor: Benchtop or 19-inch rack mountable Enclosure: Designed for adequate ventilation during operation Compatibility * Ideal for: Manufacturers building equipment for the telecom industry operating from 48V or higher DC rails, including base stations, switches, public and private telecom network equipment, PBX systems, and DC-to-DC power supplies. Why Choose Aumictech for the BK Precision 1790? At Aumictech, we specialize in supplying test and measurement equipment. Whether you need reliable, precise DC power for sensitive electronic development, solid power for production line testing, or stable current for laboratory R&D, our team ensures the BK Precision 1790 delivers maximum performance and accuracy for your application.

1790 Characteristics / Specifications

PARAMETER	VALUE
Output Voltage Range Class	Low to moderate DC volts class per 1790 datasheet
Output Current Range Class	High current tens of amperes class
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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Isolation	Output floating relative to chassis class
Current Limit	Adjustable current limiting
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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
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Notes	
From BK Precision 1790 High Current 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.