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Data Sheet

August 14, 2026

BK PRECISION

BK Precision 1690 Switching DC Power Supply

BK Precision 1690 Switching DC Power Supply The BK Precision 1690 Switching DC Power Supply is a high-current switching DC supply for automotive low-voltage applications. Bench DC power for lab, service, and production applications. Output Voltage Range Class: Low voltage automotive DC class The BK Precision 1690 Switching DC Power Supply is a high-current switching DC supply for automotive low-voltage applications. Bench DC power for lab, service, and production applications. Output Voltage Range Class: Low voltage automotive DC class Output Current Range Class: High current tens of amperes class



MODEL

BK Precision 1690

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1690

LISTING

<https://aumictechlabs.com/products/1690-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The BK Precision 1690 is a regulated digital DC power supply designed for continuous duty, offering a versatile power solution for various testing and development applications. It is particularly well-suited for applications that require stable, high-current DC power, such as substituting car batteries for servicing automotive electronics, powering high-fidelity audio equipment, or for use in telecommunications and amateur radio setups. The unit features dual digital displays for precise monitoring of voltage and current, alongside solid protection mechanisms to ensure reliability and longevity. Technical Specifications General Features Continuous Duty Operation: maximum current output continuously without overheating. High RFI Stability: Incorporates extensive filtering for high immunity to Radio Frequency Interference (RFI),

ensuring stable operation in environments with potential interference. Overload Protection: Features a current foldback circuit to protect the unit and connected equipment from overloads. An overload indicator illuminates when this protection is active. Over Temperature Protection: Equipped with circuitry that activates when the unit reaches a high temperature, reducing output voltage and current to a safe level. Multiple DC Output Terminals: Offers a variety of output connections for flexibility: * Two pairs of 3A snap-in connectors (front panel). * One pair of 28A screw-on output terminals (rear panel). Variable Speed Cooling Fan: The cooling fan speed adjusts based on the unit's temperature for efficient thermal management. Electrical Specifications Output Voltage: 1 VDC to 15 VDC (Variable). Maximum Output Current: 28A at 13.8VDC. * Output current is proportional to output voltage; specific current ratings are available at various voltage points, for example: 20A at 12V, 12A at 14V, and 20A at 13.8V. Line Regulation: $\leq 0.8\%$ (108-132VAC input), or specified as 5mV ($\pm 2\%$ Load). Load Regulation: Specified as 50mV (0-100% Load). Ripple and Noise: $\leq 10\text{mVrms}$, or specified as 5mVrms. AC Input Voltage: 110 VAC, 60 Hz (standard for Model 1690). * Also available in a 220VAC version (Model 1690-220V). * Power Requirements: 120/220 VAC $\pm 10\%$, 50/60 Hz. Power Consumption: 400W (typical), 580W (maximum). Metering Display Type: Digital LED displays for Voltage and Current. Voltmeter Range: 0-20V or 0-30V. Ammeter Range: 0-20A or 0-30A. Meter Accuracy: $\pm 7\%$ Full Scale (F.S.). * An alternative specification for meter accuracy is $\pm(0.2\% + 2 \text{ digits})$. Physical Specifications Dimensions: * 8.1 $\times$ 4.5 $\times$ 10.6 inches (205 $\times$ 115 $\times$ 270 mm) * 9.84" L $\times$ 9.84" W $\times$ 5.50" H (250mm $\times$ 250mm $\times$ 140mm) * 9.84 $\times$ 5.5 $\times$ 8.86 inches (250 $\times$ 140 $\times$ 225 mm) Weight: * 12.1 lbs (5.5 kg) * 19.9 lbs (9 kg) * 20 lbs (9.1 kg) Operating Temperature: 32° to 104°F (0° to 40°C), $\leq 85\%$ Relative Humidity. Storage Temperature: 5° to 158°F (-15° to 70°C), $\leq 75\%$ Relative Humidity. Why Choose Aumictech for BK Precision 1690? At Aumictech, we specialize in supplying high-end B&K Precision power equipment. Whether you need a reliable DC power source for complex electronic testing, solid power for product development, or stable current for laboratory research, our team ensures the BK Precision 1690 delivers maximum performance and precision for your critical applications.

1690 Characteristics / Specifications

PARAMETER	VALUE
Output Voltage Range Class	Low voltage automotive DC class
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 Noise Class	Switching supply ripple class
Regulation Class	Laboratory supply regulation class
Form Factor	Benchtop DC supply
Primary Power	AC mains laboratory supply class
Cooling	Forced air cooling 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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Applications Class	Bench DC power
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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 1690 Switching 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.