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Data Sheet

August 14, 2026

BK PRECISION

BK Precision 1688A Switching DC Power Supply

BK Precision 1688A Switching DC Power Supply The BK Precision 1688A Switching DC Power Supply is a 3 to 14 V high-current switching supply for automotive and marine electronics with up to 20 A at 13.8 to 14 V. Bench DC power for lab, service, and production applications. Maximum Output Current At 13.8 To 14 V: 20 A The BK Precision 1688A Switching DC Power Supply is a 3 to 14 V high-current switching supply for automotive and marine electronics with up to 20 A at 13.8 to 14 V. Bench DC power for lab, service, and production applications. Maximum Output Current At 13.8 To 14 V: 20 A Metering: Dual panel meters for voltage and current



MODEL

**BK Precision
1688A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

1688A

LISTING

<https://aumictechlabs.com/products/1688a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The BK Precision 1688A is a DC power supply designed for benchtop applications, particularly in automotive and marine electronics servicing. It has adjustable voltage and current outputs with built-in monitoring capabilities. The unit is equipped with protection features to safeguard both the power supply and the connected equipment. Technical Specifications * Model: 1688A Manufacturer: BK Precision Type: Benchtop DC Power Supply Output Voltage Range: 3 to 14 VDC Maximum Output Current: * 20 A at 13.8 to 14 VDC * 4.5 A at 3 VDC * Note: Maximum current output is proportional to the voltage setting. Guaranteed Output: 20 A at 13.8V Power Output: Up to 200W (Note: some sources indicate up to 120W or 200W for similar series, exact for 1688A)

may vary based on voltage/current setting) Meters: Two panel-mounted analog meters for continuous monitoring of output voltage and current Voltage Regulation (Line): 0.008 (Note: one source indicates 5mV ($\pm 2\%$ Load) for line regulation, and 50mV (0-100% Load) for load regulation, with Meter Accuracy $\pm 7\%$ F.S.) Ripple & Noise (RMS): 10mV rms (Note: one source specifies 5mV) Input Voltage: 108 to 132 VAC Electrical Protection Features * Current Limiting: Overload protection with foldback Over Voltage Protection: Included Short Circuit Protection: Included Reverse Polarity Protection: Included Thermal Protection: Included Physical Characteristics * Dimensions: 11.500" L x 8.500" W x 4.900" H (292.10mm x 215.90mm x 124.46mm) Weight: 20 lbs (9.1 kg) Cooling: Thermostatically controlled cooling fan Operational Capabilities * Continuous Operation: Designed to operate continuously at full load without overheating Parallel Operation: Two units can be connected in parallel to double the current capacity (up to 40 A) while maintaining the 3-14 VDC output range. Series Operation: Two units can be connected in series for higher voltage output. Interfaces and Controls * Front Panel: * POWER Switch * VOLTAGE Control knob * Analog V Meter (0 to 20 V scale) * Analog A Meter (0 to 30 A scale) * OUTPUT "+" Terminal (Red) * OUTPUT "-" Terminal (Black) * TIE POINTS (2A MAX) Rear Panel: Output terminals for higher current connections. Compliance and Certifications * ECCN: EAR99 HTSUS: 8504.40.9530 RoHS Status: Not applicable Accessories * Hook-Up Cable Set (TL 5A): 4mm Banana plug to alligator clip, 5A rating, 40" (1.0m) length. Power Supply Test Leads Set (TLPS): Includes medium and large insulated alligator clips, black and red components, sense lead. Instruction Manual: Supplied with the unit. Optional: TL-30 Hook-up leads. Product Status * Obsolete: The BK Precision 1688A is no longer manufactured. Substitutes: The BK Precision 1688B is listed as a potential substitute. Why Choose Aumictech for BK Precision 1688A? At Aumictech, we specialize in supplying high-end test and measurement equipment. Whether you need reliable power solutions for automotive electronics testing, solid support for product development, or precise instruments for quality control, our team ensures that the BK Precision 1688A, or its suitable alternatives, deliver maximum performance for your application. We understand the critical nature of dependable power in engineering environments and are committed to providing solutions that meet rigorous technical demands.

1688A Characteristics / Specifications

PARAMETER	VALUE
Output Voltage Range	3 to 14 VDC
Maximum Output Current At 13.8 To 14 V	20 A
Maximum Output Current At 3 V	4.5 A
Metering	Dual panel meters for voltage and current
Cooling	Thermostatically controlled cooling fan
Thermal Protection	Yes
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Over Voltage Protection	Yes
Current Limiting Overload Protection	Yes
Form Factor	Benchtop switching DC supply
Series Parallel	Two supplies may be series or parallel connected
Primary Power	AC mains laboratory supply class
Series Family	BK Precision 1688 switching automotive supplies
Applications Class	Automotive and marine electronics bench power
Display Type	Analog panel meters
Weight Class	Benchtop switching supply weight
Isolation	Output floating relative to chassis class
Fan Control	Thermostatic
Output Binding Posts	Front panel high current posts
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

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	
Output Voltage Range: 3 to 14 VDC	
Maximum Output Current At 13.8 To 14 V: 20 A	
Specifications	
PARAMETER	VALUE
Maximum Output Current At 3 V	4.5 A
Metering	Dual panel meters for voltage and current
Cooling	Thermostatically controlled cooling fan
Thermal Protection	Yes
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Over Voltage Protection	Yes
Current Limiting Overload Protection	Yes
Form Factor	Benchtop switching DC supply
Series Parallel	Two supplies may be series or parallel connected
Primary Power	AC mains laboratory supply class
Series Family	BK Precision 1688 switching automotive supplies
Applications Class	Automotive and marine electronics bench power
Display Type	Analog panel meters
Weight Class	Benchtop switching supply weight
Isolation	Output floating relative to chassis class
Fan Control	Thermostatic
Output Binding Posts	Front panel high current posts
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 1688A 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.