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Data Sheet

August 1, 2026

BK PRECISION

BK PRECISION 1650 Tri Output Power Supply

BK Precision 1650 Triple Output DC Power Supply The BK Precision 1650 is a benchtop triple-output DC power supply with two variable outputs and one fixed 5 V logic supply. Dealer and catalog listings for the 1650 typically describe two 0 to 25 V / 0.5 A outputs plus a fixed 5 V / 5 A output. The closely related successor models 1651A and 1652 publish detailed OEM tables for two 0 to 24 VDC / 0 to 500 mA tracking-capable outputs and a fixed 5 VDC / 4 A output with series/parallel combining, adjustable current limiting, and short-circuit / overload / reverse-polarity protection. Analog metering is characteristic of the 1650 / 1651A generation; the 1652 uses dual 3-digit LED meters. The BK Precision 1650 is a benchtop triple-output DC power supply with two variable outputs and one fixed 5 V logic supply. Dealer and catalog listings for the 1650 typically describe two 0 to 25 V / 0.5 A outputs plus a fixed 5 V / 5 A output. The closely related successor models 1651A and 1652 publish detailed OEM tables for two 0 to 24 VDC / 0 to 500 mA tracking-capable outputs and a fixed 5 VDC / 4 A output with series/parallel combining, adjustable current limiting, and short-circuit / overload / reverse-polarity protection. Analog metering is characteristic of the 1650 / 1651A generation; the 1652 uses dual 3-digit LED meters. Bench power for analog and digital circuits needing dual bipolar or independent r



MODEL

BK Precision 1650

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1650

LISTING

<https://aumictechlabs.com/products/1650-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The BK PRECISION 1650 is a triple output linear DC power supply engineered for laboratory testing, prototyping, and general electronics work. It delivers 50 W total power across three independent outputs: two variable channels (0–25 V DC each, 0.5 A max) and one fixed 5 V DC channel rated at 5 A. The variable outputs support independent operation or series/parallel tracking for expanded voltage and current capability. Built-in analog metering displays voltage and current in real time. Overload, short circuit, and reverse polarity protection safeguard connected circuits. Continuously adjustable current limiting provides precise load control. Standard binding posts and chassis ground terminal enable straightforward integration into test setups.

Technical Specifications

Type:	Triple Output Linear DC Power Supply
Total Power Output:	50 W
Output 1 & 2 (Variable):	0–25 V DC, 0.5 A each; independent or series/parallel tracking operation
Output 3 (Fixed):	+5 V DC, 5 A
Input:	117 V AC, 60 Hz
Metering:	Analog voltage and current displays
Current Limiting:	Adjustable, load-protecting
Weight:	9.2 lb
Cooling:	Natural convection

Key Features

- Dual independent variable outputs with continuous voltage adjustment
- Fixed 5 V output for dedicated rail supplies
- Series/parallel tracking extends voltage and current range
- Overload, short circuit, and reverse polarity protection
- Analog front-panel metering for real-time monitoring
- Metal chassis construction with standard binding post terminals
- Adjustable current limiting for circuit protection

Typical Applications

- Component testing and troubleshooting in the lab
- Educational demonstrations of power supply operation
- Simultaneous multi-rail prototyping and breadboard work
- Circuit validation under variable load conditions

Compatibility & Integration

Standard binding posts and chassis ground terminal accommodate conventional lab patch cables and grounding schemes. Internal precision analog circuitry utilizes LM723 and LM324 operational amplifiers with optocoupler isolation, delivering stable, adjustable output regulation.

Features & description

From manufacturer datasheet

Features

- Triple outputs: two variable + one fixed 5 V
- Independent or tracking operation (family)
- Series / parallel combining of variable outputs (switch selectable on 1651A/1652)
- Adjustable current limiting on variable supplies
- Short circuit, overload, and reverse polarity protection
- Analog or digital metering depending on model generation
- Continuous operation at rated output

1650 Characteristics / Specifications

PARAMETER	VALUE
Technical Specifications	Related 1651A / 1652 (published OEM datasheet)
Model	1650
Manufacturer	BK Precision
Instrument Type	Triple-output benchtop DC power supply
Variable Outputs	two channels, approximately 0 to 25 V at 0.5 A each (dealer listings)
Fixed Output	5 V at approximately 5 A (dealer listings)
Form Factor	Benchtop
Fixed Output (C)	5 VDC, 4 A
Constant Voltage Line Regulation	less than 0.01% + 3 mV (main); less than 5 mV (fixed)
Constant Voltage Load Regulation	less than 0.01% + 3 mV (main); less than 10 mV (fixed)
Recovery Time	100 us
Temperature Coefficient	less than 300 ppm/C
Current Limit Range	5% to 100%
Tracking Error (family)	no load less than or equal to 0.2% + 20 mV; full load less than or equal to 0.2% + 100 mV
Power	108-132 VAC 60 Hz typical (120/220 V versions available); consumption about 165 W
Operating Temperature	0 to 40 C, less than 85% RH
Dimensions	about 5.5 × 11.75 × 10.975 in (140 × 298 × 264 mm)
Weight	about 10.5 lb (4.8 kg) Standard Operating Conditions Do not exceed rated current. Use series/parallel switch only as labeled. Allow ventilation. Verify floating vs grounded output configuration before connecting sensitive DUTs.
Triple outputs	two variable + one fixed 5 V

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 40 C, less than 85% RH
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Dimensions	about 5.5 × 11.75 × 10.975 in (140 × 298 × 264 mm)
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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

PARAMETER	VALUE
Specifications	BK Precision 1650 (catalog / dealer class)
Model	1650
Manufacturer	BK Precision
Instrument Type	Triple-output benchtop DC power supply
Variable Outputs	two channels, approximately 0 to 25 V at 0.5 A each (dealer listings)
Fixed Output	5 V at approximately 5 A (dealer listings)
Form Factor	Benchtop

Technical Specifications - Related 1651A / 1652 (published OEM datasheet)
Variable Outputs (A & B): 0 to 24 VDC, 0 to 500 mA each

Specifications

PARAMETER	VALUE
Fixed Output (C)	5 VDC, 4 A
Constant Voltage Line Regulation	less than 0.01% + 3 mV (main); less than 5 mV (fixed)
Constant Voltage Load Regulation	less than 0.01% + 3 mV (main); less than 10 mV (fixed)

Ripple & Noise: less than 1 to 2 mVrms main; less than or equal to 5 mVrms fixed

Specifications

PARAMETER	VALUE
Recovery Time	100 us
Temperature Coefficient	less than 300 ppm/C
Current Limit Range	5% to 100%
Tracking Error (family)	no load less than or equal to 0.2% + 20 mV; full load less than or equal to 0.2% + 100 mV
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Dimensions	about 5.5 x 11.75 x 10.975 in (140 x 298 x 264 mm)

PARAMETER	VALUE
Weight	about 10.5 lb (4.8 kg)

Standard Operating Conditions
Do not exceed rated current. Use series/parallel switch only as labeled. Allow ventilation. Verify floating vs grounded output configuration before connecting sensitive DUTs.

Operational Notes
Confirm faceplate marking 1650 vs 1651A/1652 for exact voltage/current ratings and meter type. Use 1651A/1652 published regulation figures as the verified OEM reference for the product family when the 1650 label lacks a complete datasheet.

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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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.