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Data Sheet

August 14, 2026

BK PRECISION

BK Precision XLN6024 High Current Programmable Power Supply

BK Precision XLN6024 Programmable DC Power Supply The BK Precision XLN6024 is a high-current single-output programmable DC power supply providing 0 to 60 V and 0 to 24 A within the XLN series 1U platform. OEM XLN series datasheets list OVP adjustment, remote sense, USB standard interface, and optional LAN/GPIB, with approximately 1440 W class capability at full ratings. Burn-in, high-current component testing, and ATE racks needing a slim 1U high-power DC source. Line Regulation Voltage: less than or equal to 6 mV The BK Precision XLN6024 is a high-current single-output programmable DC power supply providing 0 to 60 V and 0 to 24 A within the XLN series 1U platform. OEM XLN series datasheets list OVP adjustment, remote sense, USB standard interface, and optional LAN/GPIB, with approximately 1440 W class capability at full ratings. Burn-in, high-current component testing, and ATE racks needing a slim 1U high-power DC source. Line Regulation Voltage: less than or equal to 6 mV Line Regulation Current: less than or equal to 4 mA



MODEL

**BK Precision
XLN6024**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

XLN6024

LISTING

<https://aumictechlabs.com/products/xln6024-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The BK Precision XLN6024 is a 1440W single-output programmable DC power supply designed for both benchtop and system integration applications. It delivers a maximum output voltage of 60V and a maximum output current of 24A. This power supply is characterized by its compact 1U high, 19-inch wide form factor, making it suitable for rackmount installations. The XLN6024 features constant voltage (CV) and constant current (CC) modes of operation, with precise voltage and current measurements. It also offers programmable voltage and current slew rates for controlled "soft starting" of loads and includes internal memory for storing up to 10 instrument settings.

Technical Specifications

Electrical Output:

- * Output Voltage: 0-60V DC
- Output Current: 0-24A DC
- Maximum Power: 1440W
- Output Protection: Over Voltage Protection (OVP), Over Current Protection (OCP), Over Power Protection (OPP), Over Temperature Protection (OTP), foldback protection mode, and key-lock function.
- OVP Adjustment Range: 3-64V
- Line Regulation (Voltage): $\leq 6\text{mV}$
- Line Regulation (Current): $\leq 4\text{mA}$
- Load Regulation (Voltage): $\leq 8\text{mV}$
- Load Regulation (Current): $\leq 7\text{mA}$
- Ripple/Noise (Normal Mode Voltage): $\leq 6\text{mV}_{\text{rms}} / \leq 70\text{mV}_{\text{pp}}$ (20Hz-20MHz)
- Programming Resolution (Voltage): 1mV
- Programming Resolution (Current): 1mA
- Programming Accuracy (Voltage): $\pm 0.05\%$ of output + 15mV
- Programming Accuracy (Current): $\pm 0.05\%$ of output + 18mA
- Readback Accuracy (Voltage): $\pm 0.05\%$ of output + 15mV
- Readback Accuracy (Current): $\pm 0.05\%$ of output + 18mA
- Auxiliary Output: 5V / 1A fixed output (for models XLN3640, XLN6024, XLN8018, and XLN10014 only)

Electrical Input:

- * Input Voltage: 100-240 VAC, 47 Hz - 63 Hz
- Power Factor Correction: Included

Interfaces

- * Standard Interfaces: USB and RS485
- Optional Interfaces (-GL Version): GPIB and LAN
- External Analog Programming Interface: Allows control via analog voltages or resistances (0-10V or 0-5 k Ω for zero to full-scale output).
- Command Processing Time: < 50 ms (average)
- Remote Control Capabilities: Via USB, RS485, GPIB, or LAN interfaces. Supports SCPI IEEE488.2 command set.
- Multi-Unit Control: Daisy chain up to 30 units via RS485 and control from one master PC.

Physical

- * Form Factor: Compact 1U high, 19-inch wide rackmountable package.
- Dimensions (W x H x D): 16.5 in. x 1.72 in. x 17 in. or 432.00mm x 43.60mm x 420.00mm
- Weight: 20 lbs (9.1 kg)
- Cooling: Front-to-rear airflow for efficient cooling in high-rack density environments.
- Front Panel: Intuitive user interface with full keypad and rotary knob. Built-in voltage and current meters displaying setting and output values concurrently.

Included Accessories: Power Cord, Rackmount Kit, Terminal Blocks for Rapid Plug Connector, User Manual.

Compatibility and Software

- * Master/Slave Mode: Easy configuration for series and parallel connection of up to 4 units (series connection only on high current models).
- List Mode: Execute up to 150-step test sequences stored in instrument memory. Steps can include voltage, current, and duration (minimum 50 ms).
- Software: Application software for remote control and creating test sequences is included.
- Drivers: LabVIEW drivers available.
- USB Virtual COM Drivers: Supports Windows 10/11 (v11.3.0).
- Operating Software: Supports Windows 7 (v040413).

Why Choose Aumictech for BK Precision XLN6024? At Aumictech, we specialize in supplying high-end programmable DC power supply equipment. Whether you need solid power for product development, precise control for manufacturing test, or reliable performance for laboratory applications, our team ensures the BK Precision XLN6024 delivers maximum performance for your application.

XLN6024 Characteristics / Specifications

PARAMETER	VALUE
Output Voltage Range	0 to 60 V
Output Current Range	0 to 24 A
OVP Adjustment Range	3 to 64 V
OVP Accuracy	300 mV
Line Regulation Voltage	less than or equal to 6 mV
Line Regulation Current	less than or equal to 4 mA
Load Regulation Voltage	less than or equal to 8 mV
Load Regulation Current	less than or equal to 7 mA
Ripple Noise Voltage	less than or equal to 6 mVrms / 70 mVpp
Ripple Noise Current	less than or equal to 70 mA
Programming Resolution Voltage	1.5 mV
Programming Resolution Current	1 mA
Programming Accuracy Voltage	0.05 percent plus 15 mV
Programming Accuracy Current	0.05 percent plus 18 mA
Readback Accuracy Voltage	0.05 percent plus 15 mV
Readback Accuracy Current	0.05 percent plus 18 mA
Average Command Response Time	less than or equal to 50 ms
Power Factor Correction	greater than or equal to 0.99 at full load
Efficiency	80 percent at full load
Remote Sense Compensation	2 V
AC Input	100 to 240 VAC / 47 to 63 Hz
Maximum Rated Input Power	1700 VA
Dimensions WxHxD	420 × 43.6 × 432 mm (16.5 × 1.7 × 17 inch)
Weight	9 kg (19.8 lb)
Standard Interface	USB

XLN6024 Specifications

PARAMETER	VALUE
BK Precision XLN6024 Programmable DC Power Supply	Overview
Applications	Burn-in, high-current component testing, and ATE racks needing a slim 1U high-power DC source.
Key Features	1U high density programmable DC supply
Technical Specifications	Output Voltage Range: 0 to 60 V
Notes	From BK Precision XLN series OEM datasheet column for XLN6024. GL suffix adds GPIB and LAN; confirm interface options on the unit label.

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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OVP Adjustment Range	3 to 64 V
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Line Regulation Voltage	less than or equal to 6 mV
Line Regulation Current	less than or equal to 4 mA
Load Regulation Voltage	less than or equal to 8 mV
Load Regulation Current	less than or equal to 7 mA
Ripple Noise Voltage	less than or equal to 6 mVrms / 70 mVpp
Ripple Noise Current	less than or equal to 70 mA
Programming Resolution Voltage	1.5 mV
Programming Resolution Current	1 mA
Programming Accuracy Voltage	0.05 percent plus 15 mV
Programming Accuracy Current	0.05 percent plus 18 mA
Readback Accuracy Voltage	0.05 percent plus 15 mV
Readback Accuracy Current	0.05 percent plus 18 mA
Average Command Response Time	less than or equal to 50 ms
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Maximum Rated Input Power	1700 VA
Dimensions WxHxD	420 x 43.6 x 432 mm (16.5 x 1.7 x 17 inch)
Weight	9 kg (19.8 lb)
Standard Interface	USB
Optional Interface: LAN and GPIB	

Notes

From BK Precision XLN series OEM datasheet column for XLN6024. GL suffix adds GPIB and LAN; confirm interface options on the unit label.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
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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.