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Data Sheet

August 14, 2026

CHROMA

Chroma 62024P Programmable DC Power Supply 100V 50A

The Chroma 62024P-100-50 is a programmable DC power supply designed for automated testing and laboratory applications. It features a wide voltage and current range, high accuracy, and fast transient response. This power supply provides stable and reliable DC power for a variety of testing requirements.



MODEL

Chroma 62024P-100-50

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

62024P-100-50

LISTING

<https://aumictechlabs.com/products/62024p-100-50-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Chroma 62024P-100-50 is a 2400W programmable DC power supply designed for automated test equipment (ATE) integration and laboratory applications. It features a constant power operating envelope, enabling it to provide a wide range of voltage and current combinations within its power rating, effectively accommodating both high voltage/low current and low voltage/high current testing requirements with a single unit. This design aims to reduce the need for multiple power supplies in typical ATE and benchtop setups. The Chroma 62024P-100-50 offers precision readback of output current and voltage, and includes output trigger signals for precise event capturing, making it suitable for ATE systems requiring oscilloscope waveform capture. It is also capable of creating complex DC transient waveforms to test device behavior.

under conditions such as voltage spikes, drops, and other deviations, making it well-suited for testing DC-DC converters and similar products. Technical Specifications * Model: Chroma 62024P-100-50 Series: 62000P Series Output Ratings: * Voltage: 0-100 VDC * Current: 0-50 ADC * Power: 2400 W Input Specifications: * AC Input Voltage Ranges: 190-250 VAC (single phase), 200-240 VAC * Power Factor Correction: 0.95 Output Regulation: * Line Regulation: * Voltage: $\pm 0.01\% + 10 \text{ mV}$ * Current: $\pm 0.01\% + 12 \text{ mA}$ * Load Regulation: * Voltage: $\pm 0.01\% + 18 \text{ mV}$ Voltage Measurement: * Range: 20 V / 100 V * Accuracy: 0.05% + 0.05% F.S. Current Measurement: * Range: 10 A / 50 A * Accuracy: 0.1% + 0.1% F.S. Output Noise: * Voltage Ripple (Peak-to-Peak): 100 mV (0-20 MHz) Programming and Control: * High-Speed Programming: Yes * Voltage and Current Slew Rate Control: Yes * Constant Power Operating Envelope: Yes * Programmable Sequences: 10 Programs / 100 Sequences * Auto Sequencing Programming: Yes, with 8 bit TTL output * Voltage Ramp Function: Time range from 5 ms to 99 hours * Transient Response Time: 3 ms * Programming Response Time (Typical): Rise Time (Full & No Load): 10 ms * Master/Slave Control: For parallel and serial operation Protection Features: * Over Voltage Protection (OVP) Adjustment Range: 110% of Vset to 110% of Vmax * Current Limit: Yes * Thermal Protection: Yes Interfaces: * Standard: RS-232, USB * Optional: GPIB (with SCPI), Ethernet/LXI Measurement and Readback: * Precision V&I Measurements: Yes * Output Trigger: Provides output trigger timing and precision event capturing Physical: * Mounting Type: Bench Top * Weight: 13 kg Efficiency: 0.85 Drift (8 hours): 0.02% of Vmax Temperature Coefficient: 0.02% of Vmax / °C Compensation: Remote sense, 5V Line Loss Compensation Applications * Automated Testing of DC-DC converters and similar products Testing device behavior to spikes, drops, and other voltage deviations Soft Start Testing Voltage Step Waveform Testing D/D Converter Sag, Cycle Drop, and Surge Testing Pulse Charge of Battery Product Life Cycle Testing Line Regulation Testing Engine Start-up Simulation Airborne Avionics Testing Why Choose Aumictech for Chroma 62024P-100-50? At Aumictech, we specialize in supplying high-end programmable DC power supply equipment. Whether you need precise voltage and current control, advanced transient waveform generation, or seamless ATE integration, our team ensures the Chroma 62024P-100-50 delivers maximum performance for your application.

62024P100 Characteristics / Specifications

PARAMETER	VALUE
Output Voltage	0 to 100 V
Output Current	0 to 50 A
Output Power	2400 W
Line Regulation Voltage	0.01 percent plus 10 mV
Line Regulation Current	0.01 percent plus 12 mA
Load Regulation Voltage	0.01 percent plus 18 mV
Load Regulation Current	0.01 percent plus 28 mA
Voltage Measurement Ranges	20 V / 100 V
Voltage Measurement Accuracy	0.05 percent plus 0.05 percent F.S.
Current Measurement Ranges	10 A / 50 A
Current Measurement Accuracy	0.1 percent plus 0.1 percent F.S.
Voltage Ripple Peak To Peak 0 To 20 MHz	100 mV
Voltage Ripple RMS	15 mV
Current Ripple RMS	20 mA
Efficiency Typical	0.85
Drift 8 Hours Voltage	0.02 percent of Vmax
Drift 8 Hours Current	0.04 percent of Imax
Temperature Coefficient Voltage	0.02 percent of Vmax perCTemperature Coefficient Current: 0.04 percent of Imax perCTransient Response Time: 3 ms
Transient Voltage Excursion 10 Percent Step	250 mV
AC Input Voltage	190 to 250 Vac single phase
Operating Temperature	0 C to 40 C
Size HxWxD	88 mm x 428 mm x 425 mm
Weight	13 kg

PARAMETER	VALUE
Power Factor Correction	0.95

62024P100 Specifications

PARAMETER	VALUE
Constant power wide operating region	Auto sequencing 10 programs and 100 sequences
Voltage and current slew rate control	Standard RS-232 and USB with optional GPIB and Ethernet LXI
Technical Specifications	Output Voltage: 0 to 100 V
Notes	Numeric rows from Chroma 62000P Series datasheet column for 62024P-100-50. Constant power envelope limits simultaneous V and I to 2400 W.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 40 C
Operating Temperature	0 C to 40 C
Size HxWxD	88 mm x 428 mm x 425 mm
Weight	13 kg
Power Factor Correction	0.95 Notes Numeric rows from Chroma 62000P Series datasheet column for 62024P-100-50. Constant power envelope limits simultaneousVandIto 2400 W.

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	
Specifications	
PARAMETER	VALUE
Output Voltage	0 to 100 V
Output Current	0 to 50 A
Output Power	2400 W
Line Regulation Voltage	0.01 percent plus 10 mV
Line Regulation Current	0.01 percent plus 12 mA
Load Regulation Voltage	0.01 percent plus 18 mV
Load Regulation Current	0.01 percent plus 28 mA
Voltage Measurement Ranges	20 V / 100 V
Voltage Measurement Accuracy	0.05 percent plus 0.05 percent F.S.
Current Measurement Ranges	10 A / 50 A
Current Measurement Accuracy	0.1 percent plus 0.1 percent F.S.
Voltage Ripple Peak To Peak 0 To 20 MHz: 100 mV	
Specifications	
PARAMETER	VALUE
Voltage Ripple RMS	15 mV
Current Ripple RMS	20 mA
Efficiency Typical	0.85
Drift 8 Hours Voltage	0.02 percent of Vmax
Drift 8 Hours Current	0.04 percent of Imax
Temperature Coefficient Voltage	0.02 percent of Vmax perCTemperature Coefficient Current: 0.04 percent of Imax perCTransient Response Time: 3 ms
Transient Voltage Excursion 10 Percent Step	250 mV
AC Input Voltage	190 to 250 Vac single phase
Operating Temperature	0 C to 40 C
Size HxWxD	88 mm x 428 mm x 425 mm

PARAMETER	VALUE
Weight	13 kg
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Notes
Numeric rows from Chroma 62000P Series datasheet column for 62024P-100-50. Constant power envelope limits simultaneousVandIto 2400 W.

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 ·
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.