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Data Sheet

August 14, 2026

CHROMA

Chroma 62006P Programmable DC Power Supply 300V 8A

The Chroma 62006P-300-8 is a programmable DC power supply, offering a wide range of voltage and current combinations within its power envelope. It features a user-friendly interface for setting parameters and monitoring output, along with remote control capabilities for automated testing applications.



MODEL

Chroma 62006P-300-8

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

62006P-300-8

LISTING

<https://aumictechlabs.com/products/62006p-300-8-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Chroma 62006P-300-8 is a 600W programmable DC power supply from the 62000P Series, designed for automated test equipment (ATE) integration and testing. This series offers a constant power operating envelope, allowing for a wide range of voltage and current combinations within the power limit, which can reduce the need for multiple power supplies in an ATE system.

Technical Specifications Output Ratings Output Voltage: 0 to 300V Output Current: 0 to 8A Output Power: 600W Electrical Characteristics Constant Power Operation: Allows for flexible combinations of voltage and current within the power rating. This means the instrument can provide high voltage with low current and low voltage with high current from a single unit. Power Factor Correction: 0.95 Line Regulation (Voltage): 0.01% + 18mV Line Regulation (Current): 0.03%

+ 20mA Load Regulation (Voltage): 0.01% + 3mV to 0.01% + 50mV Load Regulation (Current): 0.1% + 0.1%F.S. Output Noise (Voltage Ripple P-P): 50 mV to 180 mV Efficiency: 0.8 to 0.85 Drift (8 hours): Specified in manual Temperature Coefficient: Specified in manual Measurements and Readback Precision V&I Measurements: Offers 16-bit readback capability for accurate voltage and current readings. Voltage Measurement Accuracy: 0.05% + 0.05%F.S. Current Measurement Accuracy: 0.1% + 0.1%F.S. Programming and Control High-Speed Programming: Auto Sequencing Programming: 10 Programs / 100 Sequences / 8-bit TTL Voltage Ramp Function: Time range from 5ms to 99 hours or 10ms to 99 hours Voltage and Current Slew Rate Control: APG (Analog Programmable Interface): With Isolated Analog Interface Card Remote Sense: Includes 5V Line Loss Compensation. Master/Slave Control: For parallel or serial operation to achieve current sharing. The master unit scales values and downloads data to slave units for simplified programming and automatic current sharing. Output Trigger Signal: For system timing measurements. Complex DC Transients Waveforms: Ability to create waveforms to test device behavior to spikes, drops, and voltage deviations. Ideal for testing devices that experience voltage interrupts. Programming Response Time (Typical): Specified in manual Transient Response Time: Specified in manual Interfaces Standard: RS-232 and USB Optional: GPIB with SCPI, Ethernet/LXI interface Analog Interface: APG (Analog Programmable Interface) I/O Ports: Provide 8-bit TTLs, DC-ON, fault output signal, and remote inhibit. Protection Features Over-Voltage Protection (OVP) Current Limit (OCP) Over-Temperature Protection (OTP) Over-Power Protection (OPP) SENSE FAULT Protection Physical Mounting Type: Bench Top Display: LCD User Interface: Digital Encoder Knobs, Keypad, and Function Keys Applications DC/DC Converter & Inverter Voltage Dropout Testing Engine Start-up Simulation Battery Automated Charging Electronic Product Life Cycle Testing Airborne Avionics Testing Soft Start Testing Voltage Step Waveform Generation D/D Converter Sag, Cycle Drop, and Surge Testing Pulse Charge of Battery Line Regulation Testing Turn on Time of Setting 80V Voltage Sequence Program Testing Why Choose Aumictech for Chroma 62006P-300-8? At Aumictech, we specialize in supplying high-end programmable DC power supply equipment. Whether you need precise voltage and current control for automated testing, the flexibility of a constant power envelope for diverse applications, or solid protection features for reliable operation, our team ensures the Chroma 62006P-300-8 delivers maximum performance for your laboratory or enterprise procurement needs.

62006P300 Characteristics / Specifications

PARAMETER	VALUE
Output Voltage	0 to 300 V
Output Current	0 to 8 A
Output Power	600 W
Line Regulation Voltage	0.01 percent plus 18 mV
Line Regulation Current	0.03 percent plus 20 mA
Load Regulation Voltage	0.01 percent plus 50 mV
Load Regulation Current	0.03 percent plus 40 mA
Voltage Measurement Ranges	60 V / 300 V
Voltage Measurement Accuracy	0.05 percent plus 0.05 percent F.S.
Current Measurement Ranges	1.6 A / 8 A
Current Measurement Accuracy	0.1 percent plus 0.2 percent F.S.
Voltage Ripple Peak To Peak 0 To 20 MHz	180 mV
Voltage Ripple RMS	90 mV
Current Ripple RMS	60 mA
Efficiency Typical	0.75
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 perC
Temperature Coefficient Current	0.04 percent of Imax perC
Transient Response Time	3 ms
Transient Voltage Excursion 10 Percent Step	600 mV
AC Input Voltage	95 to 250 Vac
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

62006P300 Specifications

PARAMETER	VALUE
Constant power wide operating region	Auto sequencing 10 programs and 100 sequences
Voltage and current slew rate control	Standard RS-232 with optional GPIB and Ethernet LXI
Technical Specifications	Output Voltage: 0 to 300 V
Notes	Numeric rows from Chroma 62000P Series datasheet column for 62006P-300-8. Constant power envelope limits simultaneous V and I to 600 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 62006P-300-8. Constant power envelope limits simultaneousVandIto 600 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	
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Output Voltage	0 to 300 V
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Output Power	600 W
Line Regulation Voltage	0.01 percent plus 18 mV
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Voltage Measurement Ranges	60 V / 300 V
Voltage Measurement Accuracy	0.05 percent plus 0.05 percent F.S.
Current Measurement Ranges	1.6 A / 8 A
Current Measurement Accuracy	0.1 percent plus 0.2 percent F.S.
Voltage Ripple Peak To Peak 0 To 20 MHz: 180 mV	
Specifications	
PARAMETER	VALUE
Voltage Ripple RMS	90 mV
Current Ripple RMS	60 mA
Efficiency Typical	0.75
Drift 8 Hours Voltage	0.02 percent of Vmax
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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	600 mV
AC Input Voltage	95 to 250 Vac
Operating Temperature	0 C to 40 C
Size HxWxD	88 mm x 428 mm x 425 mm

PARAMETER	VALUE
Weight	13 kg
Power Factor Correction	0.95

Notes

Numeric rows from Chroma 62000P Series datasheet column for 62006P-300-8. Constant power envelope limits simultaneousVandIto 600 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

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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.