

CHROMA

62012P-100-50

The Chroma 62012P-100-50 is a high-performance programmable DC power supply belonging to the 62000P Series, delivering up to 1200W of power with a flexible constant power operating envelope. Designed specifically for ATE integration, DC-DC converter testing, and automotive/airborne electronic simulation, this 100V/50A model combines precision 16-bit readback with advanced transient programming capabilities.

SPECIFICATIONS

General

Interfaces	USB, RS-232, APG (Analog Programmable Interface) standard; GPIB optional
Display	LCD display with digital encoder knobs, keypad, and function keys

Physical

Form Factor	2U (Half-Rack)
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Output Ratings

Maximum Output Power	1200 W
Output Voltage Range	0 - 100 V
Output Current Range	0 - 50 A
Constant Power Operating Envelope	1200 W (100V/12A to 24V/50A)

Line & Load Regulation

Voltage Load Regulation	0.01% of Vmax + 12 mV (22 mV)
Voltage Line Regulation	0.01% of Vmax + 8 mV (18 mV)
Current Load Regulation	0.01% of Imax + 20 mA (25 mA)
Current Line Regulation	0.01% of Imax + 10 mA (15 mA)

Accuracy

Voltage Programming Accuracy	0.05% + 0.05% of F.S.
Current Programming Accuracy	0.1% + 0.1% of F.S.
Voltage Readback Accuracy	0.05% + 0.05% of F.S.
Current Readback Accuracy	0.1% + 0.1% of F.S.

Dynamic Response & Slew Rates

Transient Recovery Time	1 ms (to recover within 0.1% of Vmax following 50% to 100% load change)
Voltage Slew Rate Programming Range	0.001 V/ms to 10 V/ms
Current Slew Rate Programming Range	0.001 A/ms to 5 A/ms

Protection Circuits

Over Voltage Protection (OVP) Range	0 to 110 V
Over Current Protection (OCP) Range	0 to 55 A
Over Power Protection (OPP) Range	0 to 1320 W
Over Temperature Protection (OTP)	Yes

Advanced Features

Remote Sense Compensation Voltage	5 V line loss compensation
Parallel Operation Capability	Yes, with Master/Slave Control
Auto-Sequencing Programs	10 Programs / 100 Sequences / 8-bit TTL

Connectivity & Control

Digital I/O Port	8-bit TTL (includes DC-ON, Fault, Inhibit, Trigger signals)
Remote Inhibit/Enable Input	Yes
Command Language Support	SCPI standard command set

AC Input

AC Input Voltage Range	95 to 265 Vac
AC Input Frequency Range	47 to 63 Hz
Phase Configuration	Single Phase
Typical Efficiency	85%

Environmental

Storage Temperature Range	-40 to 85 °C
Cooling Method	Forced Air (Fan Cooled)

Regulatory

Safety Certifications	CE
CE Marking Status	Yes

Analog Control & Monitoring

Analog Programming Input Voltage	0 to 5 V or 0 to 10 V (user-selectable)
Analog Programming Input Resistance	0 to 5 k Ω or 0 to 10 k Ω (user-selectable)
Analog Monitor Output Voltage	0 to 5 V or 0 to 10 V (user-selectable)

Programming & Measurement

Programming DAC Resolution	16-bit
Readback ADC Resolution	16-bit

TECHNOLOGY

Switching DC Power Supply (Constant Power)

APPLICATIONS

ATE Integration, DC-DC Converter & Inverter Testing, Automotive and Airborne Electronic Simulation

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.