



The Chroma 6210K is highly stable, variable and reliable instrument for burn-in application with ambient temperature from 50-70°C, derate output 2% per°C. It delivers high power of up to 1000 watts with a wide range of voltage / current combinations ensuring you to get a supply tailored to your applications.

The Chroma 6210K is very easy to be operated either from the front panel keypad or from a remote controller via GPIB, and ISOL. It is very compact with only 1 3/4" of size and it stacks as easily on a bench as in a standard rack.

For quality and safety, the Chroma 6210K is approved by CSA, UL, and designed with standard voltage protection (OVP) and thermal shutdown. The Chroma 6210K series is a reliable instrument from component testing to new product development. The thermal shutdown even makes safe to run at remote site. The 6210K DC power supply is a powerful and cost effective solution to today's highly technical requirements.

Programmable DC Power Source

Model 6210K Series

1000W

KEY FEATURES

- Standard overvoltage protection (OVP)
- Thermal shutdown
- Numerous voltage/current combinations
- GPIB control

ORDERING INFORMATION

6210K-8: DC Power Source 8V/125A/1000W

6210K-10: DC Power Source 10V/100A/ 1000W

6210K-20: DC Power Source 20V/50A/1000W

6210K-33: DC Power Source 33V/33A/1089W

6210K-40: DC Power Source 40V/25A/1000W

6210K-60: DC Power Source 60V/18A/1080W

6210K-80: DC Power Source 80V/13A/1040W

6210K-150: DC Power Source 150V/7A/ 1050W

6210K-300: DC Power Source 300V/3.5A/ 1050W

6210K-600: DC Power Source 600V/1.7A/ 1020W

A621001: Isolated Programming Interface

A621002: GPIB Interface

A621008: Instrument driver for computer for Model 6210K Series

Special model upon request

SPECIFICATIONS ¹

Model	6210K-8	6210K-10	6210K-20	6210K-33	6210K-40	6210K-60	6210K-80	6210K-150	6210K-300	6210K-600
Output Ratings										
Output Voltage	0-8V	0-10V	0-20V	0-33V	0-40V	0-60V	0-80V	0-150V	0-300V	0-600V
Output Current	0-125A	0-100A	0-50A	0-33A	0-25A	0-18A	0-13A	0-7A	0-3.5A	0-1.7A
Output Power	1000W	1000W	1000W	1089W	1000W	1080W	1040W	1050W	1050W	1020W
Line Regulation ²										
Voltage	8mV	10mV	20mV	33mV	40mV	60mV	80mV	150mV	300mV	600mV
Current	125mA	200mA	50mA	33mA	25mA	18mA	13mA	7mA	3.5mA	1.7mA
Load Regulation ³										
Voltage	8mV	10mV	20mV	33mV	40mV	60mV	80mV	150mV	300mV	600mV
Current	125mA	200mA	50mA	33mA	25mA	18mA	13mA	7mA	3.5mA	1.7mA
Meter Accuracy										
Voltage	0.09V	0.11V	0.3V	0.43V	0.5V	0.7V	0.9V	1.6V	4.0V	7.0V
Current	1.35A	3.0A	0.6A	0.43A	0.35A	0.28A	0.23A	0.08A	0.045A	0.018A
OVP Adjustment Range										
Output Noise & Ripple (V)(20Hz-20MHz)										
rms	10mV	10mV	10mV	10mV	10mV	20mV	20mV	30mV	40mV	100mV
p-p	50mV	100mV	50mV	100mV	100mV	150mV	150mV	200mV	200mV	500mV
Stability ⁴										
Voltage	4mV	5mV	10mV	16.5mV	20mV	30mV	40mV	75mV	150mV	300mV
Current	62.5mA	100mA	25mA	16.5mA	12.5mA	9mA	6.5mA	3.5mA	1.75mA	0.85mA
Temperature Coefficient ⁵										
Voltage	1.6mV	2mV	4mV	6.6mV	8mV	12mV	16mV	30mV	60mV	120mV
Current	37.5mA	60mA	15mA	9.9mA	7.5mA	5.4mA	3.9mA	2.1mA	1.05mA	0.51mA
Maximum Remote Sense Line Drop Compensation										
	0.5V/line	1V/line	1V/line	1V/line	1V/line	1V/line	1V/line	1V/line	1V/line	1V/line

1 Specifications are warranted over a temperature range of 0-50°C with default local sensing. From 50-70°C, derate output 2% per °C.

2 For input voltage variation over the AC input voltage range, with constant rated load.

3 For 0-100% load variation, with constant nominal line voltage.

4 Maximum drift over 8 hours with constant line, load, and temperature, after 90 minutes warm-up.

5 Change in output per°C change in ambient temperature, with constant line and load.

AC Input: 200-250Vac at 10Arms or 100-130Vac at 20Arms, 47-63Hz

Maximum Voltage Differential from Output to Safety

Ground: 600Vdc

Storage Temperature Range: -55 to +85°C

Humidity Range: 0 to 80% RH Non-condensing

Time Delay from Power on Until Output Stable: 2 seconds maximum

Voltage Mode Transient Response Time: 1ms recovery to 1% band for 30% step load change from 70% to 100% or 100% to 70%

Remote Start/Stop and Interlock: TTL compatible input, Contact Closure, 12-250 Vac or 12-130 Vdc

Switching Frequency:

Nominal: 100KHz, 200KHz output ripple

>80V models: 80KHz, 160KHz output ripple

Analog Programming Linearity: Typical error is less than 0.5% setting. Maximum error is 1% of rate output

Agency Approvals: CSA, UL, CE

Dimension Size (WxHxD): 482.6x41.6x443.8 mm