

Programmable DC Power Source

MODEL 6260 Series

Key Features:

- 9 models
- 3 phase, 208 VAC input
- Digital encoder knobs, keypad and function keys
- Power Factor Correction (0.95)
- Embedded controller for front panel sequencing
- Zero voltage "soft" switching for low noise, high reliability and high efficiency
- 16-bit digital control with bright vacuum fluorescent display readout, bar graphs and status indicators
- LabView® and Labwindows®
- Automatic Voltage / current mode exchange
- Constant power mode
- 10 store / recall locations and 99 step sequencing
- Remote sense, 5V line loss compensation
- Current sharing for parallel operation
- Optional IEEE-488.2 GPIB control with SCPI and RS-232 standard interface
- OVP, current limit, thermal protection
- UL, CSA, CE



PROGRAMMABLE DC POWER SOURCE

Chroma 6260 Series of variable-output, programmable DC power supplies are designed for use in ATE, burn-in, plating, and other high power systems for a broad range of Test & Measurement applications.

The 6260 Series of constant voltage, constant current power supplies are available in power ranges within 6KW. All models have 10-turn voltage and current controls that vary the voltage (10V~600V) and current (10A~600A) outputs from zero to the maximum rated values. The action of constant voltage changes to constant current occurs automatically when the load current exceeds the control settings. It also provides an adjustable current limit that allows to be set without short-circuiting the output.

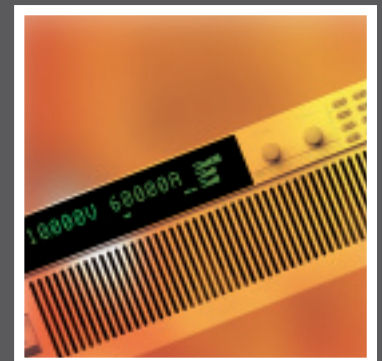
The 6260 Series programmable DC power source incorporates modern power factor correction circuitry to increase the input power factor more than 0.95 to meet IEC regulation,

thus reduces the input current requirement and raises the efficiency over 85% .

The 6260 Series have user programmable 100 sequential front panel input status for automated test application. Furthermore, the real time measurement of voltage and current uses a 16-bit digital control with bright vacuum fluorescent display readout, bar graphs and status indicators.

The 6260 Series can be operated easily either from the front panel keypad or from remote controller via GPIB (option), and RS-232 & APG (standard) with the size of 5.22 inch, it is very compact and able to stack easily in a standard rack.

For quality and safety, the 6260 Series is certified by CSA, UL, CE and builtin with standard over voltage protection (OVP) and thermal shutdown. Chroma 6260 series is a reliable instrument for testing from components to new product development.



Chroma

SPECIFICATIONS :

Model	6260-10	6260-20	6260-30	6260-40	6260-60	6260-80	6260-100	6260-150	6260-300	6260-600
Output Ratings										
Output Voltage ¹	0-10V	0-20V	0-30V	0-40V	0-60V	0-80V	0-100V	0-150V	0-300V	0-600V
Output Current ²	0-600A	0-300A	0-200A	0-150A	0-100A	0-75A	0-60A	0-40A	0-20A	0-10A
Output Power	6000W	6000W	6000W	6000W	6000W	6000W	6000W	6000W	6000W	6000W
Line Regulation ³										
Voltage	1 mV	1 mV	2 mV	2 mV	3 mV	3 mV	3 mV	5 mV	7 mV	10 mV
Current	150 mA	50 mA	50 mA	30 mA	20 mA	20 mA	20 mA	10 mA	5 mA	5 mA
Load Regulation ⁴										
Voltage	10 mV	10 mV	10 mV	10 mV	10 mV	10 mV	10 mV	10 mV	15 mV	30 mV
Current	150 mA	50 mA	50 mA	30 mA	30 mA	20 mA	20 mA	10 mA	10 mA	10 mA
Meter Accuracy										
Voltage (0.15% of Vmax)	15 mV	30 mV	45 mV	60 mV	90 mV	120 mV	150 mV	225 mV	450 mV	900 mV
Current (0.5% of Imax)	3 A	1.5 A	1 A	750 mA	500 mA	375 mA	300 mA	200 mA	100 mA	50 mA
Output Noise and Ripple (V)										
rms (Voltage)	10 mV	10 mV	10 mV	10 mV	10 mV	12 mV	15 mV	15 mV	20 mV	20 mV
P-P(0-20 MHz)	85 mV	80 mV	70 mV	70 mV	70 mV	75 mV	75 mV	80 mV	80 mV	95 mV
rms (Current ⁵)	500 mA	100 mA	50 mA	50 mA	30 mA	30 mA	30 mA	30 mA	20 mA	20 mA
OVP Adjustment Range										
(0% to 103% of Vmax)	0.-10.3 V	0-20.6 V	0.30.9 V	0.41.2 V	0.61.8 V	0-82.4 V	0-103 V	0-154.5 V	0-309 V	0-618 V
Efficiency ⁶	0.85	0.87	0.87	0.87	0.89	0.89	0.9	0.9	0.91	0.91
Stability (30 minutes) ⁷										
Voltage (0.04% of Vmax)	4 mV	8 mV	12 mV	16 mV	24 mV	32 mV	40 mV	60 mV	120 mV	240 mV
Current (0.6% of Imax)	3600 mA	1800 mA	1200 mA	900 mA	600 mA	450 mA	360 mA	240 mA	120 mA	60 mA
Stability (8 hours) ⁸										
Voltage (0.02% of Vmax)	2 mV	4 mV	6 mV	8 mV	12 mV	16 mV	20 mV	30 mV	60 mV	120 mV
Current (0.04% of Imax)	240 mA	120 mA	80 mA	60 mA	40 mA	30 mA	24 mA	16 mA	8 mA	4 mA
Temperature Coefficient ⁹										
Voltage (0.04% of Vmax/°C)	4 mV	8 mV	12 mV	16 mV	24 mV	32 mV	40 mV	60 mV	120 mV	240mV
Current (0.06% of Imax/°C)	360 mA	180 mA	120 mA	90 mA	60 mA	45 mA	36 mA	24 mA	12 mA	6 mA
Program Resolution										
Voltage (0.002% of Vmax)	0.2 mV	0.4 mV	0.6 mV	0.8 mV	1.2 mV	1.6 mV	2 mV	3 mV	6 mV	12 mV
Current (0.002% of Imax)	12 mA	6 mA	4 mA	3 mA	2 mA	1.5 mA	1.2 mA	0.8 mA	0.4 mA	0.2 mA
OVP (0.002% of Vmax)	0.2 mV	0.4 mV	0.6 mV	0.8 mV	1.2 mV	1.6 mV	2 mV	3 mV	6 mV	12 mV
Program Accuracy ¹⁰										
Voltage (0.1% of Vmax)	10 mV	20 mV	30 mV	40 mV	60 mV	80 mV	100 mV	150 mV	300 mV	600 mV
Current (0.15% of Imax)	3000 mA	1500 mA	1000 mA	75 mA	500 mA	375 mA	300 mA	200 mA	100 mA	50 mA
OVP (0.1% of Vmax)	10 mV	20 mV	30 mV	40 mV	60 mV	80 mV	100 mV	150 mV	300 mV	600 mV
Readback Resolution										
Voltage (0.002% of Vmax)	0.2 mV	0.4 mV	0.6 mV	0.8 mV	1.2 mV	1.6 mV	2 mV	3 mV	6 mV	12 mV
Current (0.002% of Imax)	12 mA	6 mA	4 mA	3 mA	2 mA	1.5 mA	1.2 mA	0.8 mA	0.4 mA	0.2 mA
Readback Accuracy										
Voltage (0.15% of Vmax)	15 mV	30 mV	45 mV	60 mV	90 mV	120 mV	150 mV	225 mV	450 mV	900 mV
Current (0.5% of Imax)	3000 mA	1500 mA	1000 mA	750 mA	500 mA	375 mA	300 mA	200 mA	100 mA	50 mA

All specifications are subject to change without notice.

Notes:

- Minimum output voltage is <0.3% of rate voltage at zero output setting.
- Minimum output current is <0.2% of rate current at zero output setting when measured with rated load resistance.
- For input voltage variation over the AC input voltage range with constant rated load.
- For 0-100% load variation with constant nominal line voltage.
- Current mode noise is measured from 10% to 100% of rated output voltage, full current unit in CC mode
- Typical efficiency at nominal input voltage and full output power.
- Maximum drift over 30 minutes with constant line,load ,and temperature after power on.
- Maximum drift over 8 hours with constant line,load ,and temperature after 30 minute warm-up.
- Change in output per °C change in ambient temperature with constant line and load.
- Accuracy specifications apply for settings in range of 1% to 100% of rated output.

Ordering Information:

6260-10: DC Power Source 10V / 600A / 6 kW
 6260-20: DC Power Source 20V / 300A / 6 kW
 6260-30: DC Power Source 30V / 200A / 6 kW
 6260-40: DC Power Source 40V / 150A / 6 kW
 6260-60: DC Power Source 60V / 100A / 6 kW
 6260-80: DC Power Source 80V / 75A / 6 kW
 6260-100: DC Power Source 100V / 60A / 6 kW
 6260-150: DC Power Source 150V / 40A / 6 kW
 6260-300: DC Power Source 300V / 20A / 6 kW
 6260-600: DC Power Source 600V / 10A / 6 kW
 A626001: GPIB Interface for Model 6260 Series

General Specification :

AC input voltage operating range :
 190-242 Vac 3 phase 3 wire + safety ground , 208 Vrms at 20Arms
 AC line input voltage frequency range : 47-63 Hz
 Maximum AC line input inrush current : 35 Arms
 AC line input power factor : 0.95
 Dimension Size (WxHxD) : 482.6x132.5x533.4 mm
 Operating Temperature Range : 0°C ~ 50°C
 Storage Temperature Range : -40°C ~ +85°C
 Transient Response Time < 3 ms (voltage mode)
 Maximum Remote Sense Line Drop Compensation :
 Minimum 3.8V for each line, 5V typical
 Time Delay From Output Enable Until Output Stable : 2s maximum
 Isolation : 600Vdc (Output to Chassis)
 Switching Frequency : typical 31 kHz ; 62 kHz output ripple
 Rise Time : 100 ms (0 to 100% step in output voltage)

Developed and Manufactured by :

CHROMA ATE INC.

致茂電子股份有限公司
 HEAD OFFICE

No. 43, Wu-Chuan Rd., Wu-Ku Ind.
 Park, Wu-Ku, Taipei Hsien, Taiwan
 Tel : +886-2-2298-3855
 Fax : +886-2-2298-3596
 http://www.chromaate.com
 E-mail : chroma@chroma.com.tw

U.S.A.

CHROMA ATE INC.(U. S. A.)
 7 Chrysler Irvine, CA 92618
 Tel : +1-949-421-0355
 Fax : +1-949-421-0353
 Toll Free : +1-800-478-2026

Europe

CHROMA ATE EUROPE B.V.
 Max Planckstraat 4, 6716 BE
 Ede, The Netherlands
 Tel: +31-318-648282
 Fax: +31-318-648288

China

CHROMA ELECTRONICS (Shen Zhen) Co.,Ltd.
 8F, No.4, Nanyou Tian An Industrial
 Estate, Shenzhen, China
 Post Code : 518054
 Tel : +86-755-2664-4598
 Fax : +86-755-2641-9620

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