



Programmable DC Power Source Model 6202F Series 2800W / Low Cost - High Power

KEY FEATURES

- Soft start operation limiting in-rush current on power up
- Lower losses in power and higher efficiency
- Quiet operation
- Multiple fans to maintain cooling and speed controlled for long life
- Analog programming as a standard feature
- Multiple level shut down for safe operation



The 6202F series is our newest line of power supplies. It incorporates our most advanced technology and design philosophy.

The 6202F series uses zero voltage switching which results in increased efficiency and lower noise. This latest development in power conversion technology has only recently been implemented by manufacturers of fixed output power supplies.

The 6202F series caters to the applications needs of computer controlled component burn-in, electroplating, process control, magnet control, and other high powered requirements.

The 6202F is a 19" rack mountable power supply which is available in a 3.5" (2U) size.

ORDERING INFORMATION

- 6202F-7.5** : DC Power Source 7.5V/300A/ 2250W
- 6202F-12** : DC Power Source 12V/22A/ 2640W
- 6202F-20** : DC Power Source 20V/130A/ 2600W
- 6202F-40** : DC Power Source 40V/70A/ 2800W
- 6202F-60** : DC Power Source 60V/46A/ 2760W
- 6202F-100** : DC Power Source 100V/28A/ 2800W
- 6202F-150** : DC Power Source 150V/18A/ 2700W
- 6202F-300** : DC Power Source 300V/9A/ 2700W
- 6202F-600** : DC Power Source 600V/4A/ 2400W
- A621001**: Isolated Programming Interface
- A621002**: GPIB Interface
- A621003**: RS-232C Interface for Model 6206/6210/6201F/6202F Series

Special model upon request

SPECIFICATIONS ¹

Model	6202F-7.5	6202F-12	6202F-20	6202F-40	6202F-60	6202F-100	6202F-150	6202F-300	6202F-600
Output Ratings									
Output Voltage	0-7.5V	0-12V	0-20V	0-40V	0-60V	0-100V	0-150V	0-300V	0-600V
Output Current	0-300A	0-220A	0-130A	0-70A	0-46A	0-28A	0-18A	0-9A	0-4A
Output Power	2250W	2640W	2600W	2800W	2760W	2800W	2700W	2700W	2400W
Line Regulation ²									
Voltage (0.01% of Vmax+2mV)	5.75mV	8mV	12mV	22mV	32mV	52mV	77mV	152mV	302mV
Current (0.01% of Imax+1mA)	152mA	112mA	67mA	37mA	25mA	16mA	11mA	6.5mA	4mA
Load Regulation ³									
Voltage (0.01% of Vmax+2mV)	11mV	14mV	20mV	35mV	50mV	80mV	118mV	230mV	455mV
Current (0.05% of Imax+1mV)	230mA	170mA	103mA	58mA	40mA	26mA	19mA	12mA	8mA
Meter Accuracy									
Voltage (1% of Vmax+1 count)	0.09V	0.13V	0.3V	0.5V	0.7V	1.1V	1.6V	4V	7V
Current (1% of Imax+1 count)	4A	2.3A	1.4A	0.8A	0.56A	0.38A	0.19A	0.1A	0.05A
Output Noise & Ripple (V)									
rms	10mV	10mV	10mV	15mV	15mV	25mV	25mV	40mV	50mV
p-p (0-20MHz)	100mV	100mV	100mV	150mV	150mV	175mV	200mV	400mV	500mV
Stability ⁴									
Voltage (0.05% of Vmax)	3.75mV	6mV	10mV	20mV	30mV	50mV	75mV	150mV	300mV
Current (0.05% of Imax)	150mA	110mA	65mA	35mA	23mA	14mA	9mA	4.5mA	2mA
Temperature Coefficient ⁵									
Voltage (0.02% of V max/°C)	1.5mV	2.4mV	4mV	8mV	12mV	20mV	30mV	60mV	120mV
Current (0.03% of I max/°C)	90mA	66mA	39mA	21mA	13.8mA	8.4mA	5.4mA	2.7mA	1.2mA
OVP Adjustment Range (5% to 110% of Vmax)									
	0.375-8.25V	0.6-13.2V	1-22V	2-44V	3-66V	5-110V	7.5-165V	15-330V	30-660V

1 These specifications are warranted over a temperature range of 0-50°C. From 50 to 70°C, derate output current 2% per°C. Specifications are subject to change without notice. Numbers posted are maximum values for model-dependent specifications.

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 30 minute warm-up.

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

AC Input Voltage Range: 190-264Vac, 1σ (22.6A @208Vdc; 20.5A max @230Vdc typical)
Frequency: 47-63Hz

Maximum Voltage Differential from Output to Safety

Ground: 600Vdc

Time Delay from Power on Until Output Stable: 5 seconds maximum

Voltage Mode Transient Response Time: <3ms for the output voltage to recover within 0.5% of its previous level after a step change in load current of 10% to 90% of rated output

Switching Frequency: Nominal 78KHz (156KHz output ripple)

Typical Efficiency: 85%

Maximum Remote Sense Line Drop Compensation:

5V/line (line drop is subtracted from total voltage available at supply output)

Remote Monitoring:

Output voltage and current: 0-5V, 0-10V

0 to full scale output, 1% accuracy

Remote Start/Stop and Interlock: TTL Compatible Input,

selectable logic

Agency Approvals: CSA pending, CE pending
Programming

Remote analog programming (Full Scale Input) - voltage and current programming: 0-5k, 0-10k resistance: 0-5V (factory default), 0-10V voltage sources. Optional isolated program and readback (V&I)-0-5V.

Optional digital control, RS232C, GPIB, SAMI interfaces.

Environmental Specifications

Operating Temperature Range: 0°C - 50°C. From 50°C - 70°C, derate output current 2% per°C

Storage Temperature Range: -40 to +85°C

Humidity Range: 0-80% RH Non-condensing

Cooling: Fan cooled. Air exhaust to rear.

Overtemperature Shutdown: automatic restart or latch off.

Weight: 15 Kgs (33lbs)

Dimension Size (WxHxD): 483x87.6x533 mm