



KEY FEATURES

- Power range: 5KW / 10KW / 15KW
- Voltage range: 0 ~ 1000V
- Current range: 0 ~ 375A
- High power density (15KW in 3U)
- Easy Master / Slave parallel & series operation up to 150KW
- Precision V&I Measurements
- High-speed programming
- Voltage & Current Slew Rate Control
- Digital encoder knobs, keypad and function keys
- Current sharing operation
- Voltage ramp function (time range: 10 ms ~ 99 hours)
- Auto Sequencing Programming: 10 Programs / 100 Sequences
- OVP, Current Limit, Thermal protection
- Standard Analog Programming interface
- Standard USB / RS-232 / RS485 interface
- Optional GPIB / Ethernet interface
- Remote output ON / OFF (I / P)
- Remote sense line drop compensation
- LabView and Labwindows
- CE Certified

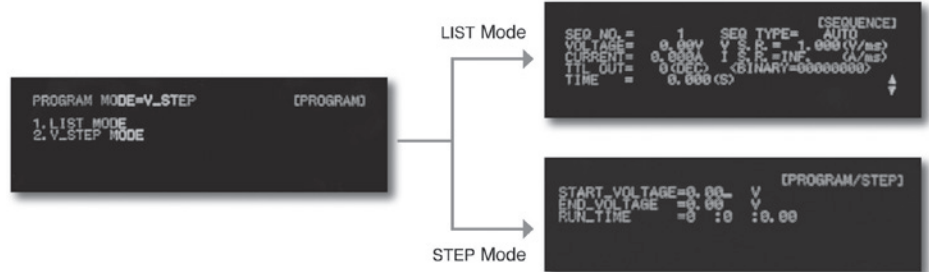
Chroma's new 62000H Series of programmable DC power supplies offer many unique advantages for telecom, automated test system & integration, industrial, battery charge & simulation for hybrid cars and solar panel simulation. These advantage include high power density of 15KW in 3U, precision readback of output current and voltage, output trigger signals as well as the ability to create complex DC transients waveforms to test device behavior to spikes, drops, and other voltage deviations.

The 62000H Series includes 12 different models ranging from 5KW to 15KW, with current ranges up to 375A and voltage ranges up to 1000V. The 62000H can easily parallel up to ten units capable of 150KW with current sharing for bulk power applications, for example, battery bank simulation of 450V/150A/67.5KW for electric vehicle and military use.

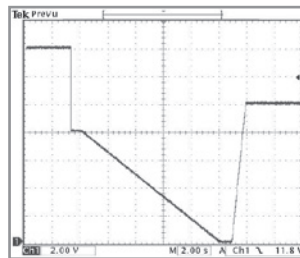
There are 100 user programmable input status on the front panel for automated test application and life cycle ON/OFF test. In addition, the 62000H has a 16 bit digital control with bright vacuum fluorescent display readout.

The 62000H series DC power supply are very easy to operate either from the front panel keypad or from the remote controller via USB / RS-232 / RS485 / APG (Standard) and GPIB & Ethernet (optional). Its compact size with 3U only can be stacked on a bench in a standard rack without any difficulties.

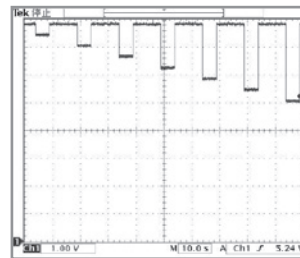
Another unique capability of the 62000H supplies is their ability to create complex DC transient waveforms. This capability allows devices to be tested to DC voltage dropouts, spikes and other voltage variations making them an ideal choice for aerospace device testing, inverter testing and other devices which will experience voltage interrupts. Applications include DC/DC Converter & Inverter voltage drop test, engine start-up simulation, battery automated charging, electronic product life cycle test, etc.



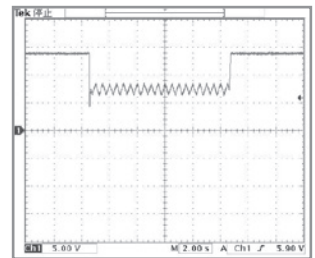
Master/Slave Parallel Operation - 150kW



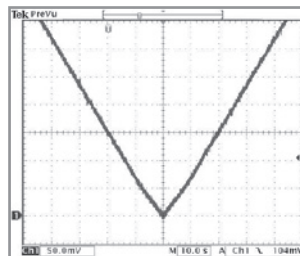
Battery Voltage Dropout



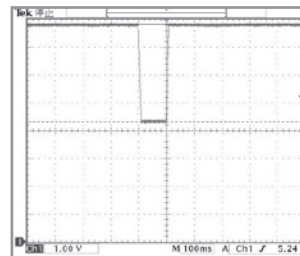
Reset Behavior at Voltage Drop of ISO 16750-2



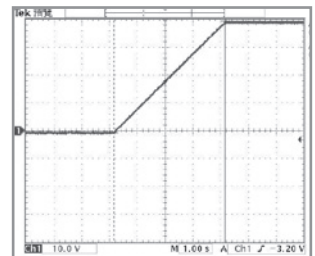
Engine Starting Profile of ISO 16750-2



Battery Voltage Slow Decrease & Decrease profile



Telecom Converter Sag Testing



Output Voltage Slew Rate Control

ELECTRICAL SPECIFICATIONS -1							
Model	62075H-30	62050H-40	62050H-450	62050H-600	62100H-30	62100H-40	62100H-450
Output Ratings							
Output Voltage	0-30V	0-40V	0-450V	0-600V	0-30V	0-40V	0-450V
Output Current	0-250A	0-125A	0-11.5A	0-8.5A	0-375A	0-250A	0-23A
Output Power	7500W	5000W	5000W	5000W	11250W	10000W	10000W
Line Regulation							
Voltage	± 0.01% F.S.						
Current	± 0.05% F.S.						
Load Regulation							
Voltage	± 0.02% F.S.						
Current	± 0.1% F.S.						
Voltage Measurement							
Range	6V / 30V	8V / 40V	90V / 450V	120V / 600V	6V / 30V	8V / 40V	90V/450V
Accuracy	0.05% + 0.05% F.S.						
Current Measurement							
Range	50A / 250A	25A / 125A	2.3A / 11.5A	1.7A / 8.5A	75A / 375A	50A / 250A	4.6A/23A
Accuracy	0.1% + 0.1% F.S.						
Output Noise & Ripple							
Voltage Noise (P-P)	60mV	60mV	300mV	350mV	60mV	60mV	300mV
Voltage Ripple (rms)	15mV	15mV	450mV	600mV	15mV	15mV	450mV
Current Ripple (rms)	100mA	50mA	20mA	15mA	150mA	100mA	40mA
OVP Adjustment Range							
Range	0-110% programmable from front panel, remote digital inputs						
Accuracy	± 1% of full-scale output						
Programming Response Time							
Rise Time: Full Load	6ms	8ms	60ms	60ms	6ms	8ms	60ms
Rise Time: No Load	6ms	8ms	60ms	60ms	6ms	8ms	60ms
Fall Time: Full Load	6ms	8ms	60ms	60ms	6ms	8ms	60ms
Fall Time: 10% Load	100ms	100ms	250ms	250ms	100ms	100ms	250ms
Fall Time: No Load	1s	1s	2.5s	2.5s	1s	1s	2.5s
Slew Rate Control							
Voltage slew rate range	0.001V/ms ~ 5V/ms	0.001V/ms ~ 5V/ms	0.001V/ms ~ 7.5V/ms	0.001V/ms ~ 10V/ms	0.001V/ms ~ 5V/ms	0.001V/ms ~ 5V/ms	0.001V/ms ~ 7.5V/ms
Current slew rate range	0.001A~1A/ms, or INF	0.001A~1A/ms, or INF	0.001A~0.1A/ms, or INF	0.001A~0.1A/ms, or INF	0.001A~1A/ms, or INF	0.001A~1A/ms, or INF	0.001A~0.1A/ms, or INF
Minimum transition time	0.5ms						
Transient Response Time							
Recovery	Recovers within 1ms to +/-0.75% of steady-state output for a 50% to 100% or 100% to 50% load change(1A/μs)						
Efficiency	0.87(Typical)						
Drift (30 minutes)							
Voltage	0.04% of Vmax						
Current	0.06% of Imax						
Drift (8 hours)							
Voltage	0.02% of Vmax						
Current	0.04% of Imax						
Temperature Coefficient							
Voltage	0.04% of Vmax/°C						
Current	0.06% of Imax/°C						



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Battery Test & Automation Solution
 Photovoltaic Test & Automation Solution
 Semiconductor/IC Test Solution
 Laser Diode Test Solution
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 PPD Test Solution
 Video & Color Test Solution
 Automated Optical Inspection Solution
 Power Electronics Test Solution
 Passive Component Test Solution
 Electrical Safety Test Solution
 General Purpose Test Solution
 Thermoelectric Test & Control Solution
 PXI Test & Measurement Solution
 Manufacturing Execution Systems Solution

ELECTRICAL SPECIFICATIONS -2

Model	62100H-600	62100H-1000	62150H-40	62150H-450	62150H-600	62150H-1000
Output Ratings						
Output Voltage	0-600V	0-1000V	0-40V	0-450V	0-600V	0-1000V
Output Current	0-17A	0-10A	0-375A	0-34A	0-25A	0-15A
Output Power	10000W	10000W	15000W	15000W	15000W	15000W
Line Regulation						
Voltage	± 0.01% F.S.					
Current	± 0.05% F.S.					
Load Regulation						
Voltage	± 0.02% F.S.	± 0.05% F.S.	± 0.02% F.S.	± 0.02% F.S.	± 0.02% F.S.	± 0.05% F.S.
Current	± 0.1% F.S.					
Voltage Measurement						
Range	120V/600V	200V/1000V	8V/40V	90V/450V	120V/600V	200V/1000V
Accuracy	0.05% + 0.05%F.S.					
Current Measurement						
Range	3.2A/17A	4A/10A	75A/375A	6.8A/34A	5A/25A	6A/15A
Accuracy	0.1% + 0.1%F.S.					
Output Noise & Ripple						
Voltage Noise(P-P)	350mV	2550mV	60mV	300mV	350mV	2550mV
Voltage Ripple(rms)	600mV	1500mV	15mV	450mV	600mV	1500mV
Current Ripple(rms)	30mA	180mA	150mA	60mA	45mA	270mA
OVP Adjustment Range						
Range	0-110% programmable from front panel, remote digital inputs					
Accuracy	± 1% of full-scale output					
Programming Response Time						
Rise Time:Full Load	60ms	25ms(50% F.S. CC Load)	8ms	60ms	60ms	25ms(50% F.S. CC Load)
Rise Time:No Load	60ms	25ms	8ms	60ms	60ms	25ms
Fall Time: Full Load	60ms	25ms(50% F.S. CC Load)	8ms	60ms	60ms	25ms(50% F.S. CC Load)
Fall Time: 10% Load	250ms	80ms(50% F.S. CC Load)	100ms	250ms	250ms	80ms(50% F.S. CC Load)
Fall Time: No Load	2.5s	3s	1s	2.5s	2.5s	3s
Slew Rate Control						
Voltage slew rate range	0.001V/ms~10V/ms	0.001V/ms~40V/ms	0.001V/ms~5V/ms	0.001V/ms~7.5V/ms	0.001V/ms~10V/ms	0.001V/ms~40V/ms
Current slew rate range	0.001A~0.1A/ms, or INF	0.001A~0.1A/ms, or INF	0.001A~1A/ms, or INF	0.001A~0.1A/ms, or INF	0.001A~0.1A/ms, or INF	0.001A~0.1A/ms, or INF
Minimum transition time	0.5ms					
Transient Response Time						
	Recovers within 1ms to +/- 0.75% of steady-state output for a 50% to 100% or 100% to 50% load change(1A/μs)					
Efficiency						
	0.87(Typical)					
Drift (30 minutes)						
Voltage	0.04% of Vmax					
Current	0.06% of Imax					
Drift (8 hours)						
Voltage	0.02% of Vmax					
Current	0.04% of Imax					
Temperature Coefficient						
Voltage	0.04% of Vmax/°C					
Current	0.06% of Imax/°C					

ORDERING INFORMATION

Power Rating	62000H Series Programmable DC Power Supply
5KW	62050H-40 : Programmable DC Power Supply 40V/125A/5KW
	62050H-450 : Programmable DC Power Supply 450V/11.5A/5KW
	62050H-600 : Programmable DC Power Supply 600V/8.5A/5KW
10KW	62075H-30 : Programmable DC Power Supply 30V/250A/7.5KW
	62100H-30 : Programmable DC Power Supply 30V/375A/11KW
	62100H-40 : Programmable DC Power Supply 40V/250A/10KW
	62100H-450 : Programmable DC Power Supply 450V/23A/10KW
	62100H-600 : Programmable DC Power Supply 600V/17A/10KW
15KW	* 62100H-1000 : Programmable DC Power Supply 1000V/10A/10KW
	62150H-40 : Programmable DC Power Supply 40V/375A/15KW
	62150H-450 : Programmable DC Power Supply 450V/34A/15KW
	62150H-600 : Programmable DC Power Supply 600V/25A/15KW
	* 62150H-1000 : Programmable DC Power Supply 1000V/15A/15KW
Options	A620024 : GPIB Interface for 62000H series (Factory installed)
	A620025 : Ethernet Interface for 62000H series (Factory installed)
	A620026 : Rack Mounting kit for 62000H series

Note 1 : Please specify GPIB or Ethernet Interface (alternative) at time of order.

Note 2 : All models output power are available for 380/400Vac line voltage.

Note 3 : Call for availability for 200/220 Vac line voltage



GENERAL SPECIFICATIONS				
Programming & Measurement Resolution				
Voltage (Front Panel)	10mV / 100mV (Model 62000H-1000)			
Current (Front Panel)	10 mA / 1mA (Model 62000H-1000)			
Voltage (Digital Interface)	0.002% of Vmax			
Current (Digital Interface)	0.002% of Imax			
Voltage (Analog Interface)	0.04% of Vmax			
Current (Analog Interface)	0.04% of Imax			
Remote Interface				
Analog programming	Standard			
USB	Standard			
RS-232	Standard			
RS485	Standard			
GPIO	Optional			
Ethernet	Optional			
System BUS(CAN)	Standard for master/slave control			
Programming Accuracy				
Voltage (Front Panel and Digital Interface)	0.1% of Vmax			
Current (Front Panel and Digital Interface)	0.3% of Imax			
Voltage (Analog Interface)	0.2% of Vmax			
Current (Analog Interface)	0.3% of Imax			
GPIO Command Response Time				
Vout setting	GPIO send command to DC source receiver <20ms			
Measure V & I	Under GPIO command using Measure <25ms			
Analog Interface (I/O)				
Voltage and Current Programming inputs (I/P)	0-10Vdc / 0-5Vdc / 0-5k ohm / 4-20 mA of F.S.			
Voltage and Current monitor output (O/P)	0-10Vdc / 0-5Vdc / 4-20mA of F.S.			
External ON/OFF (I/P)	TTL:Active Low or High(Selective)			
DC_ON Signal (O/P)	Level by user define. (Time delay = 1 ms at voltage slew rate of 10V/ms.)			
CV or CC mode Indicator (O/P)	TTL Level High=CV mode ; TTL Level Low= CC mode			
OTP Indicator (O/P)	TTL: Active Low			
System Fault indicator(O/P)	TTL: Active Low			
Auxiliary power supply(O/P)	Nominal supply voltage : 12Vdc / Maximum current sink capability: 10mA			
Safety interlock(I/P)	Time accuracy: <100ms			
Remote inhibit(I/P)	TTL: Active Low			
Series & Parallel Operation	Master / Slave control via CAN for 10 units up to 150KW. (Series: two units / Parallel: ten units)			
Auto Sequencing(List Mode)				
Number of program	10			
Number of sequence	100			
Dwell time Range	5ms - 15000S			
Trig. Source	Manual / Auto / External			
Auto Sequencing (Step Mode)				
Start voltage	0 to Full scale			
End voltage	0 to Full scale			
Run time	10ms - 99hours			
Input Specification				
AC input voltage 3phase , 3 wire + ground	3Ø 200~220Vac ± 10% V _{LL} *1 ; 3Ø 380~400Vac ± 10% V _{LL}			
AC frequency range	47-63 Hz			
Max Current (each phase)	200/220 Vac	5KW Model : 39A	10KW Model : 69A	15KW Model : 93A
	380/400 Vac	5KW Model : 22A	10KW Model : 37A	15KW Model : 50A
General Specification				
Maximum Remote Sense Line Drop Compensation	<100V model: 5% of full scale voltage per line(10% total) >100V model :2% of full scale voltage per line (4% total)			
Operating Temperature Range	0°C ~ 50°C *2			
Storage Temperature Range	-40°C ~ +85°C			
Dimension (HxWxD)	132.8 x 428 x 610 mm / 5.23 x 16.85 x 24.02 inch			
Weight	5KW Model : Approx. 23 kg / 50.66 lbs 10KW Model : Approx. 29 kg / 63.88 lbs *3 15KW Model : Approx. 35 kg / 77.09 lbs			

Note*1 : Call for availability

Note*2 : The operating temperature range is 0°C ~ 40°C for Model 62100H-1000/62150H-1000

Note*3 : The weight is approx. 35kg/77.09 lbs for Model 62100H-1000

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