



PROGRAMMABLE DC POWER SUPPLY MODEL 62000H SERIES

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 advantages include high power density of 18KW in 3U, precision readback of output current and voltage, output trigger signals as well as the ability to create complex DC transient waveforms to test device behavior for spikes, drops, and other voltage deviations.

The 62000H Series includes different models ranging from 5KW to 18KW, with current range up to 375A and voltage range up to 1800V. The 62000H can easily parallel up to 11 units capable of 198KW 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 supplies are very easy to operate either from the front panel keypad or from the remote controller via CAN/Ethernet/USB/RS232/RS485/GPIB/ APG. Its compact size with 3U only can be stacked on a bench in a standard rack without any difficulty.

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.

MODEL 62000H SERIES

KEY FEATURES

- Power range : 5KW/10KW/15KW/18KW
- Current range : 0~375A
- Voltage range : 0~1800V/2000V(series)
- AC input voltage range : 200/220Vac, 380/400Vac , 440/480Vac
- High power density (18KW in 3U)
- Easy master/slave parallel & series operation
- 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: 5 ms ~ 99 hours)
- Auto sequencing programming: 10 programs/100 sequences
- OVP, current limit, thermal protection
- Standard analog programming interface
- Support CAN/Ethernet/USB/RS232/RS485/ GPIB/APG interfaces
- Remote output ON/OFF (I/P)
- Remote sense line drop compensation
- LabView and Labwindows
- Solar array simulation function
- Shade I-V curve simulation
- I-V curve programming: 10 program/100 I-V files
- CE Certified



HIGH POWER DENSITY 18KW IN 3U PROGRAMMABLE DC POWER SUPPLY

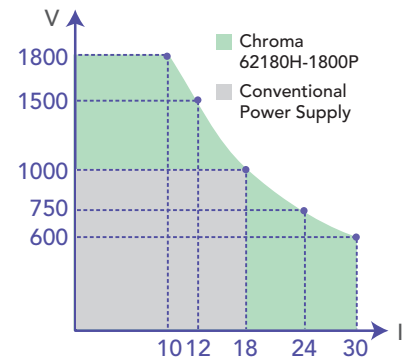
The 62000H Series supplies offer a high power density envelop of maximum 18KW in 3U, deliver low output noise and ripple, excellent line and load regulation, and fast transient response. With wide range of voltage (30V~1800V), current (30A), suitable for every part of your manufacturing process from design to production testing.



WIDE OPERATING REGION FOR OUTPUT (62000H-P SERIES)

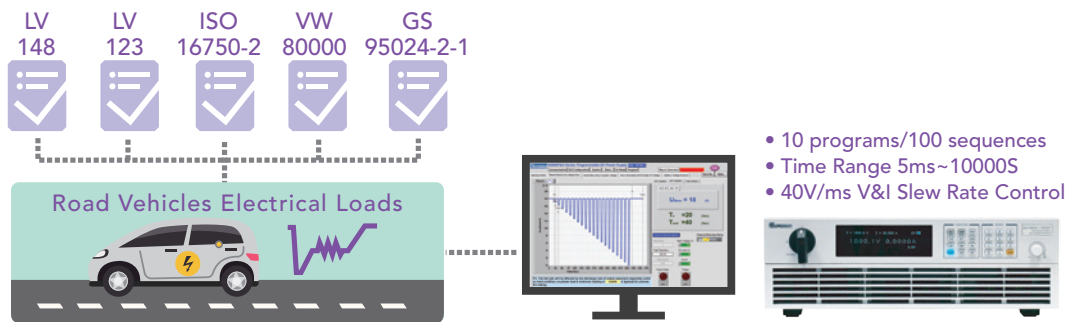
The 62000H-P Series are equipped with active PFC low-current harmonic feed to grid, which can save power consumption and power system configuration under high-power testing. The 62000H-P has a wide operating region of output for users to operate in a broad voltage and current range at rated power that is not limited to a single operating point of full power. It is suitable for testing the products with diverse specifications such as electronic components, server power, battery application products, and automotive electronic components, etc. For instance, the model 62180H-1800P with 1800V/30A/18kW output can be operated flexibly in various combinations as shown in the figure.

Operating Region



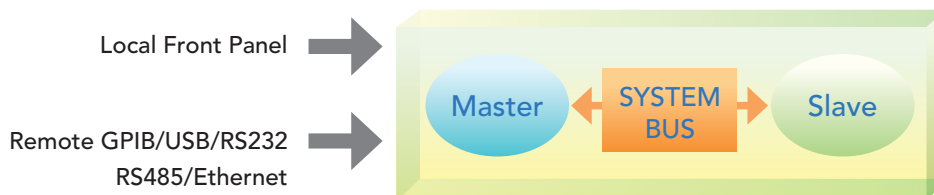
AUTOMOTIVE ELECTRICAL CHARACTERISTICS SIMULATION

The 62000H Series DC power supply has a high-speed CV dynamic response with controllable slew rate up to 40V/ms. It can be applied to many automotive regulations for electrical characteristics testing, including LV148, LV123, ISO 16750-2, VW 80000, GS 95024-2-1, etc., to perform dynamic voltage testing on automotive components and electrical systems during start-up and operation. Moreover, the graphical softpanel allows users to test with one click to quickly verifying the product stability, and saves the development timeline. (For detailed support items, please refer to Chroma's official website - Chroma Softpanel for Model 62000P & 62000H Series).



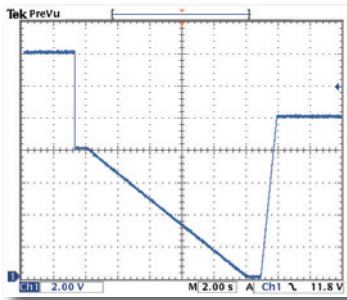
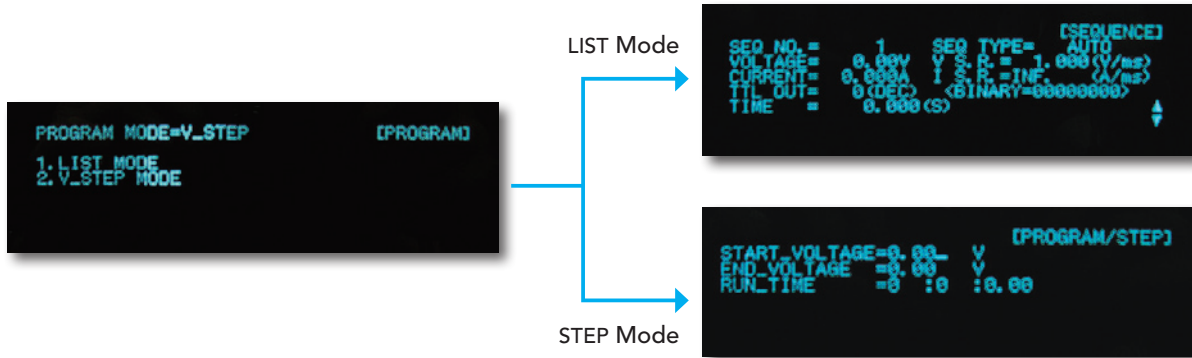
MASTER / SLAVE PARALLEL & SERIES OPERATION

When high power is required, it is common to connect two or more power supplies in parallel or series. The 62000H Series supplies have a smart Master / Slave control mode making series/parallel operation fast and simple. In this mode, the master scales values and downloads data to slave units so programming is simple and current sharing automatic.

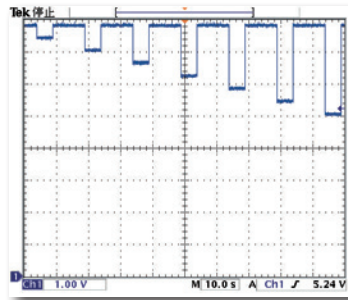


PROGRAMMING SEQUENCES APPLICATIONS

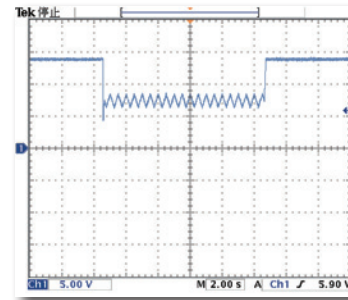
The 62000H Series supplies' LIST and STEP modes allows for auto sequencing function. The LIST mode allows for 100 user programmable sequences with time settings ranging from 5ms to 15000s and voltage / current slew rate control. The STEP mode allows for setting start, end voltage and run time of 10ms to 99 hours for automated test applications. Applications include DC/DC Converter & Inverter voltage dropout testing, engine start-up simulation, battery automated charging, battery voltage dropout simulation, product life cycle testing and avionics testing.



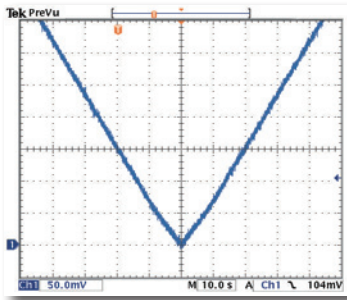
Battery Voltage Dropout



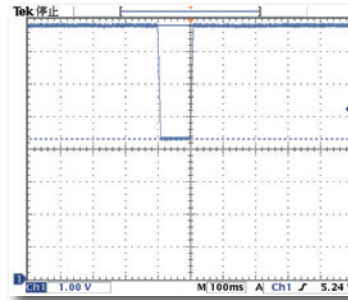
Reset Behavior at Voltage Drop of ISO 16750-2



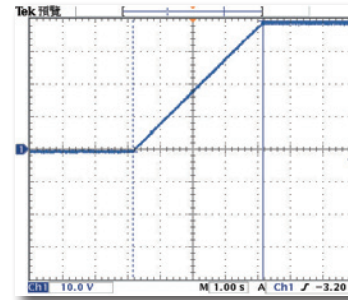
Engine Starting Profile of ISO 16750-2



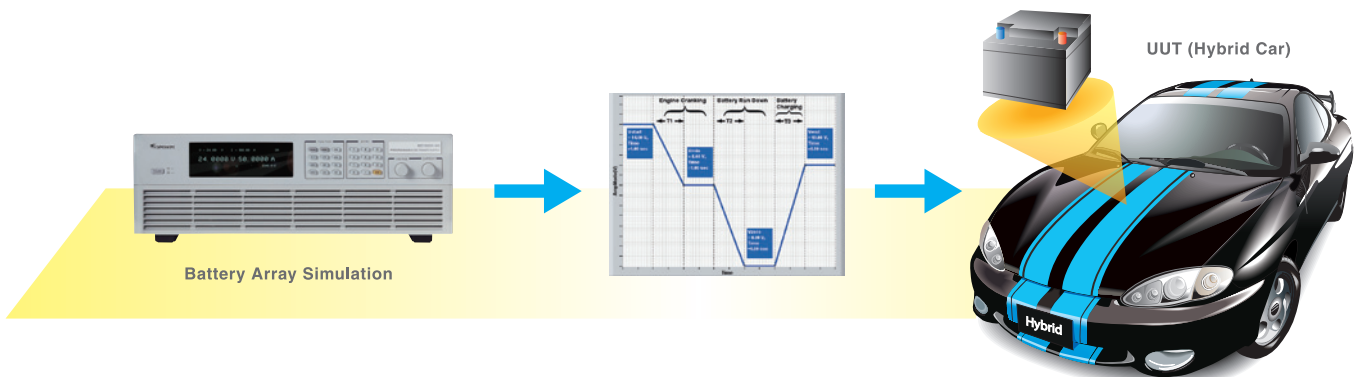
Battery Voltage Slow Decrease & Increase



Telecom Converter Sag Testing

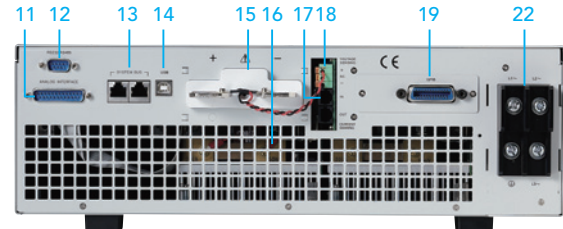
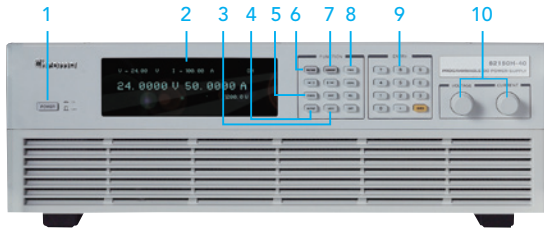


Output Voltage Slew Rate Control

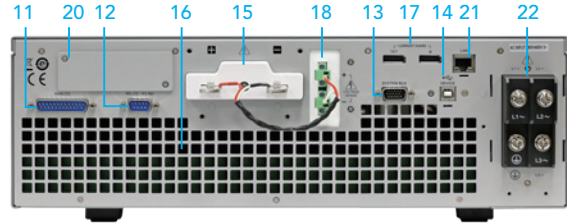
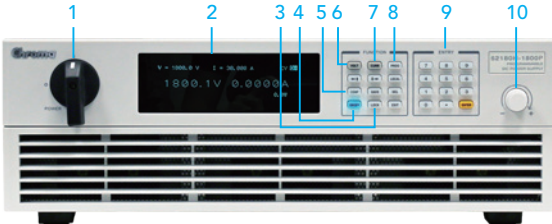


PANEL DESCRIPTION

5KW/10KW/15KW MODEL



18KW MODEL



- | | |
|---|---|
| <ol style="list-style-type: none"> 1. POWER Switch 2. VFD Display Display setting, readings and operating status 3. LOCK Key Lock all settings 4. OUTPUT Key Enable or disable the output 5. CONFIG Key Set the system configuration 6. VOLTAGE Key Set the output voltage 7. CURRENT Key Set the output current 8. PROG Key Program the sequence 9. NUMERIC Key Set the data 10. ROTARY Key Adjust the V&I and set the parameter | <ol style="list-style-type: none"> 11. Analog programming interface For analog level to program and monitor output voltage & current 12. RS-232 or RS-485 Interface (alternative) 13. System Bus For master/slave parallel and series control 14. USB Interface 15. OUTPUT Terminal Connect the output cable to a UUT 16. System Fan With fan speed control 17. Current Sharing Terminal Connect the cable to slave unit 18. Sense Terminal Connect the UUT for voltage compensation 19. GPIB or ETHERNET Interface (Option for 2kW/5kW/10kW/15kW models) 20. GPIB Interface (Option for 18kW model) 21. Ethernet Interface (Standard for 18kW model) 22. AC Input Terminal |
|---|---|

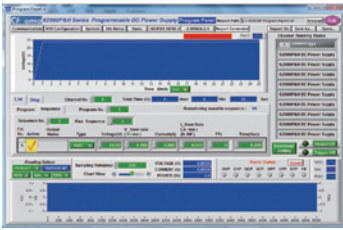
ORDERING INFORMATION

| | |
|--------------|--|
| Power Rating | 62000H Series Programmable DC Power Supply |
| 2KW | 62020H-150S : Programmable DC Power Supply 150V/40A/2KW with Solar Array Simulation |
| 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 |
| | 62050H-600S : Programmable DC Power Supply 600V/8.5A/5KW with Solar Array Simulation |
| 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-100P*3 : Programmable DC Power Supply 100V/250A/10KW |
| | 62100H-450 : Programmable DC Power Supply 450V/23A/10KW |
| | 62100H-600 : Programmable DC Power Supply 600V/17A/10KW |
| | 62100H-600S : Programmable DC Power Supply 600V/17A/10kW with Solar Array Simulation |
| 15KW | 62100H-1000 : Programmable DC Power Supply 1000V/10A/10KW |
| | 62150H-40 : Programmable DC Power Supply 40V/375A/15KW |
| | 62150H-100P*3 : Programmable DC Power Supply 100V/375A/15KW |
| | 62150H-450 : Programmable DC Power Supply 450V/34A/15KW |
| | 62150H-600 : Programmable DC Power Supply 600V/25A/15KW |
| | 62150H-600S : Programmable DC Power Supply 600V/25A/15KW with Solar Array Simulation |
| 18KW | 62150H-1000 : Programmable DC Power Supply 1000V/15A/15KW |
| | 62150H-1000S : Programmable DC Power Supply 1000V/15A/15kW with Solar Array Simulation |
| | 62180H-1800P : Programmable DC Power Supply 1800V/30A/18KW |
| Options | 62180H-1800S : Programmable DC Power Supply 1800V/30A/18KW with Solar Array Simulation |
| | A620024 : GPIB Interface for 2kW/5kW/10kW/15kW models (Factory installed) |
| | A620025 : Ethernet Interface for 62000H series (Factory installed) |
| | A620026 : Rack Mounting kit for 62000H series |
| | A6200039 : GPIB Interface for 12kW/18kW models |
| | A632013*4 : CAN interface for 62180H-1800P |

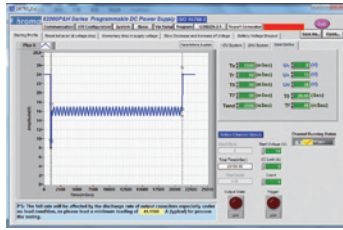
Note *1 : All models output power are available for 200/220Vac, 380/400Vac and 440/480Vac (600V/1000V models) line voltage.

Note *2 : Call for availability. (30V/40V/100V/450V for 200/220 Vac and 440/480 Vac line voltage)

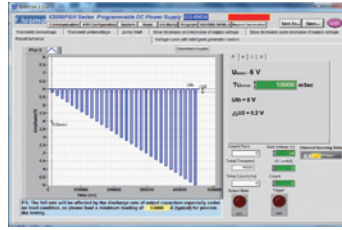
Note *3 : 62000H-P models include active PFC and constant power envelop operation. Note *4 : Call for availability.



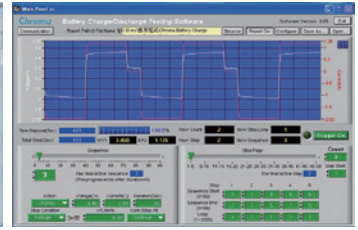
Program Sequences Function



ISO 16750-2 Standard for Voltage Transient Test



GS-95024 Standard for Voltage Transient Test



Battery Charge Test

ELECTRICAL SPECIFICATIONS - 1

| Model | 62075H-30 | 62050H-40 | 62050H-450 | 62050H-600 | 62100H-30 | 62100H-40 | 62100H-100P | 62100H-450 | 62100H-600 |
|----------------------------------|---|-------------------|---------------------|--------------------|-------------------|-------------------|-------------------|---------------------|--------------------|
| Output Ratings | | | | | | | | | |
| Output Voltage | 0-30V | 0-40V | 0-450V | 0-600V | 0-30V | 0-40V | 0-100V | 0-450V | 0-600V |
| Output Current | 0-250A | 0-125A | 0-11.5A | 0-8.5A | 0-375A | 0-250A | 0-250A | 0-23A | 0-17A |
| Output Power | 7500W | 5000W | 5000W | 5000W | 11250W | 10000W | 10000W | 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 | 20V/100V | 90V/450V | 120V/600V |
| 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 | 50A / 250A | 4.6A/23A | 3.2A/17A |
| Accuracy | 0.1% + 0.1% F.S. | | | | | | | | |
| Output Noise & Ripple | | | | | | | | | |
| Voltage Noise (P-P) | 60mV | 60mV | 300mV | 350mV | 60mV | 60mV | 100mV | 300mV | 350mV |
| Voltage Ripple (rms) | 15mV | 15mV | 450mV | 600mV | 15mV | 15mV | 20mV | 450mV | 600mV |
| Current Ripple (rms) | 100mA | 50mA | 20mA | 15mA | 150mA | 100mA | 100mA | 40mA | 30mA |
| 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 | 20ms | 60ms | 60ms |
| Rise Time: No Load | 6ms | 8ms | 60ms | 60ms | 6ms | 8ms | 20ms | 60ms | 60ms |
| Fall Time: Full Load | 6ms | 8ms | 60ms | 60ms | 6ms | 8ms | 20ms | 60ms | 60ms |
| Fall Time: 10% Load | 100ms | 100ms | 250ms | 250ms | 100ms | 100ms | 625ms | 250ms | 250ms |
| Fall Time: No Load | 1s | 1s | 2.5s | 2.5s | 1s | 1s | 2.5s | 2.5s | 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 ~ 5V/ms | 0.001V/ms ~ 7.5V/ms | 0.001V/ms ~ 10V/ms |
| Current slew rate range | 0.001A~1A/ms, or INF | | | | | | | | |
| Min. 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 (Typical) | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.91 | 0.87 | 0.87 |
| Drift (30 minutes) | | | | | | | | | |
| Voltage | 0.04% of Vmax | | | | 0.01% of Vmax | | | 0.04% of Vmax | |
| Current | 0.06% of Imax | | | | 0.06% of Imax | | | 0.06% of Imax | |
| Drift (8 hours) | | | | | | | | | |
| Voltage | 0.02% of Vmax | | | | 0.005% of Vmax | | | 0.02% of Vmax | |
| Current | 0.04% of Imax | | | | 0.005% of Imax | | | 0.04% of Imax | |
| Temperature Coefficient | | | | | | | | | |
| Voltage | 0.04% of Vmax/°C | | | | 0.005% of Vmax/°C | | | 0.04% of Vmax/°C | |
| Current | 0.06% of Imax/°C | | | | 0.01% of Imax/°C | | | 0.06% of Imax/°C | |

ELECTRICAL SPECIFICATIONS -2

| Model | 62100H-1000 | 62150H-40 | 62150H-100P | 62150H-450 | 62150H-600 | 62150H-1000 | 62180H-1800P |
|----------------------------------|--|---------------------|---------------------|-----------------------|----------------------|-------------------------|-----------------------|
| Output Ratings | | | | | | | |
| Output Voltage | 0-1000V | 0-40V | 0-100V | 0-450V | 0-600V | 0-1000V | 0 ~ 1800V |
| Output Current | 0-10A | 0-375A | 0-375A | 0-34A | 0-25A | 0-15A | 0 ~ 30A |
| Output Power | 10000W | 15000W | 15000W | 15000W | 15000W | 15000W | 18000W |
| Line Regulation | | | | | | | |
| Voltage | ±0.01% F.S. | | | | | | |
| Current | ±0.05% F.S. | | | | | | |
| Load Regulation | | | | | | | |
| Voltage | ±0.05% F.S. | ±0.02% F.S. | ±0.02% F.S. | ±0.02% F.S. | ±0.02% F.S. | ±0.05% F.S. | ±0.05% F.S. |
| Current | ±0.1% F.S. | | | | | | ±0.2% F.S. |
| Voltage Measurement | | | | | | | |
| Range | 200V/1000V | 8V/40V | 20V/100V | 90V/450V | 120V/600V | 200V/1000V | 1100V / 1800V |
| Accuracy | 0.05% + 0.05%F.S. | | | | | | |
| Current Measurement | | | | | | | |
| Range | 4A/10A | 75A/375A | 75A/375A | 6.8A/34A | 5A/25A | 6A/15A | 15A / 30A |
| Accuracy | 0.1% + 0.1%F.S. | | | | | | |
| Output Noise & Ripple | | | | | | | |
| Voltage Noise(P-P) | 2550mV | 60mV | 100mV | 300mV | 350mV | 2550mV | 3500 mV |
| Voltage Ripple(rms) | 1500mV | 15mV | 20mV | 450mV | 600mV | 1500mV | 750 mV |
| Current Ripple(rms) | 180mA | 150mA | 100mA | 60mA | 45mA | 270mA | 250mA |
| 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 | 25ms (30% F.S. CC Load) | 8ms | 20ms | 60ms | 60ms | 25ms (50% F.S. CC Load) | 90ms |
| Rise Time:No Load | 25ms | 8ms | 20ms | 60ms | 60ms | 25ms | 90ms |
| Fall Time: Full Load | 25ms (50% F.S. CC Load) | 8ms | 20ms | 60ms | 60ms | 25ms (50% F.S. CC Load) | 90ms |
| Fall Time: 10% Load | 120ms (10% F.S. CC Load) | 100ms | 625ms | 250ms | 250ms | 80ms (10% F.S. CC Load) | 625ms |
| Fall Time: No Load | 3s | 1s | 2.5s | 2.5s | 2.5s | 3s | 2.5s |
| Slew Rate Control | | | | | | | |
| Voltage slew rate range | 0.001Vms~ 40V/ms | 0.001V/ms ~5V/ms | 0.001V/ms ~5V/ms | 0.001V/ms ~7.5V/ms | 0.001V/ms ~10V/ms | 0.001V/ms ~40V/ms | 0.001V/ms ~ 20V/ms |
| Current slew rate range | 0.001A~0.1A/ms, or INF | | | | | | |
| Min. 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) | | | | | | 1.5ms *6 |
| Efficiency (Typical) | 0.85 | 0.87 | 0.92 | 0.87 | 0.87 | 0.87 | 0.9 |
| Drift (30 minutes) | | | | | | | |
| Voltage | 0.04% of Vmax | | 0.01% of Vmax | | 0.04% of Vmax | | |
| Current | 0.06% of Imax | | 0.06% of Imax | | 0.06% of Imax | | |
| Drift (8 hours) | | | | | | | |
| Voltage | 0.02% of Vmax | | 0.005% of Vmax | | 0.02% of Vmax | | |
| Current | 0.04% of Imax | | 0.005% of Imax | | 0.04% of Imax | | |
| Temperature Coefficient | | | | | | | |
| Voltage | 0.04% of Vmax/°C | | 0.005% of Vmax/°C | | 0.04% of Vmax/°C | | |
| Current | 0.06% of Imax/°C | | 0.01% of Vmax/°C | | 0.06% of Imax/°C | | |

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

Note *2 : All models output power are available for 200/220Vac, 380/400Vac and 440/480Vac (600V/1000V models) line voltage.

Note *3 : Call for availability. (30V/40V/100V/450V for 200/220 Vac and 440/480 Vac line voltage)

GENERAL SPECIFICATIONS

| Programming & Measurement Resolution | | | | | |
|--|---|-----------------|-------------------------|-------------------------|------------------|
| Voltage (Front Panel) | 0.1mV / 1mV / 10mV / 100mV (VO < 10V / 40V / 600V / 1800V) | | | | |
| Current (Front Panel) | 0.1mA / 1mA / 10 mA (IO < 10A / 100A / 1000A) | | | | |
| 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 (Standard for 62180H-1800P) | | | | |
| System BUS(CAN) | Standard for master/slave control | | | | |
| Programming Accuracy | | | | | |
| Voltage (Front Panel and Digital Interface) | 0.1% of Vmax / 0.05% of Vmax (62000H-100P models) | | | | |
| Current (Front Panel and Digital Interface) | 0.3% of Imax / 0.2% of Imax (62000H-100P/1800P models) | | | | |
| 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 for 10 units (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% VLL ; 3Ø 380~400Vac ± 10% VLL ; 3Ø 440~480Vac ± 10% VLL | | | | |
| 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/30A *5 | 15KW Model : 50A/30A *5 | 18KW Model : 37A |
| | 440/480 Vac | 5KW Model : 19A | 10KW Model : 32A | 15KW Model : 44A | -- |
| General Specification | | | | | |
| Maximum Remote Sense Line Drop Compensation | 30V/40V model : 5% of full scale voltage per line(10% total) 100V model : 2.5% of full scale voltage per line (5% total) ; >100V model : 2% of full scale voltage per line (4% total) 1000V model : 1% of full scale voltage per line (2% total) ; 1800V model : 0.5% of full scale voltage per line (1% total) | | | | |
| Operating Temperature Range | 0°C ~ 50°C *1 | | | | |
| Storage Temperature Range | -40°C ~ +85°C *7 | | | | |
| Dimension (HxWxD) | 132.8 x 428 x 610 mm / 5.23 x 16.85 x 24.02 inch ; 18KW model : 132.8 x 428 x 660 mm / 5.23 x 16.85 x 25.99 inch | | | | |
| Weight | 5KW Model : Approx. 23 kg / 50.66 lbs ; 10KW Model : Approx. 29 kg / 63.88 lbs *2 *3 15KW Model : Approx. 35 kg / 77.09 lbs *4 ; 18KW Model : Approx. 40 kg / 88.19 lbs | | | | |

Note*1 : The operating temperature range is 0°C ~ 40°C for Model 62100H-1000/62150H-1000/62180H-1800P.

Note*2 : The weight is approx. 35kg/77.09 lbs for Model 62100H-1000.

Note*3 : The weight is approx. 38kg/83.77 lbs for Model 62150H-100P.

Note*4 : The max. input current (each phase) is 20A for Model 62100H-100P.

Note*5 : The max. input current (each phase) is 30A for Model 62100H-100P/62150H-100P.

Note*6 : Recovers within 1.5ms to ±1.5% of steady-state output for a 50% to 75% or 75% to 50% load change (0.1A/ms)

Note*7 : Storage temperature range is -25°C ~ 70°C for Model 62180H-1800P.

ELECTRICAL SPECIFICATIONS WITH SOLAR ARRAY SIMULATION

| Model | 62020H-150S | 62050H-600S | 62100H-600S | 62150H-600S | 62150H-1000S | 62180H-1800S | |
|---|---|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------|
| Output Ratings | | | | | | | |
| Output Voltage | 0 ~ 150V | 0 ~ 600V | 0 ~ 600V | 0 ~ 600V | 0 ~ 1000V | 0 ~ 1800V | |
| Output Current | 0 ~ 40A | 0 ~ 8.5A | 0 ~ 17A | 0 ~ 25A | 0 ~ 15A | 0 ~ 30A | |
| Output Power | 2000W | 5000W | 10000W | 15000W | 15000W | 18000W | |
| Line Regulation | | | | | | | |
| Voltage | | | | | | ± 0.01% F.S. | ± 0.01% F.S. |
| Current | | | | | | ± 0.05% F.S. | ± 0.05% F.S. |
| Load Regulation | | | | | | | |
| Voltage | | | | | | ± 0.05% F.S. | ± 0.05% F.S. |
| Current | | | | | | ± 0.1% F.S. | ± 0.2% F.S. |
| Voltage Measurement | | | | | | | |
| Range | 60V / 150V | 120V / 600V | 120V / 600V | 120V / 600V | 200V / 1000V | 1100V / 1800V | |
| Accuracy | 0.05% + 0.05%F.S. | | | | | | |
| Current Measurement | | | | | | | |
| Range | 16A / 40A | 3.4A / 8.5A | 6.8A / 17A | 10A / 25A | 6A / 15A | 15A / 30A | |
| Accuracy | 0.1% + 0.1%F.S. | | | | | | |
| Output Noise&Ripple | | | | | | | |
| Voltage Noise(P-P) | 450 mV | 1500 mV | 1500 mV | 1500 mV | 2550 mV | 3500 mV | |
| Voltage Ripple(rms) | 65 mV | 650 mV | 650 mV | 650 mV | 1950 mV | 750 mV | |
| Current Ripple(rms) | 80 mA | 150 mA | 300 mA | 450 mA | 270mA | 250mA | |
| OVP Adjustment Range | | | | | | | |
| Range | 0 ~ 110% programmable from front panel, remote digital inputs. | | | | | | |
| Accuracy | ± 1% of full-scale output | | | | | | |
| Programming Response Time | | | | | | | |
| Rise Time: 50%F.S. CC Load | 10ms (6.66A loading) | 30ms | 30ms | 30ms | 25ms | 90ms | |
| Rise Time: No Load | 10ms | 30ms | 30ms | 30ms | 25ms | 90ms | |
| Fall Time: 50%F.S. CC Load | 10ms (6.66A loading) | 30ms | 30ms | 30ms | 25ms | 90ms | |
| Fall Time: 10%F.S. CC Load | 83ms (1.33A loading) | 100ms | 100ms | 100ms | 80ms | 625ms | |
| Fall Time: No Load | 300ms | 1.2s | 1.2s | 1.2s | 3s | 2.5s | |
| Slew Rate Control | | | | | | | |
| Voltage Slew Rate Range | 0.001V/ms~15V/ms | 0.001V/ms~20V/ms | 0.001V/ms~20V/ms | 0.001V/ms~20V/ms | 0.001V/ms~40V/ms | 0.001V/ms~20V/ms | |
| Current Slew Rate Range | 0.001A/ms ~ 1A/ms, or INF | 0.001A/ms ~ 0.1A/ms, or INF | 0.001A/ms ~ 0.1A/ms, or INF | 0.001A/ms ~ 0.1A/ms, or INF | 0.001A/ms ~ 0.1A/ms, or INF | 0.001A/ms ~ 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/us) | | | | | 1.5ms *4 | |
| Efficiency | 0.77(Typical) | | | | | 0.87(Typical) | 0.9(Typical) |
| Programming & Measurement Resolution | | | | | | | |
| Voltage (Front Panel) | 10 mV | 10 mV | 10 mV | 10 mV | 100mV | 100mV | |
| Current (Front Panel) | 1mA | 1mA | 1mA | 1mA | 1mA | 10mA | |
| 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 | | | | | | |
| Programming Accuracy | | | | | | | |
| Voltage (Front Panel and Digital Interface) | 0.1% of Vmax | | | | | | |
| Current (Front Panel and Digital Interface) | 0.3% of Imax | | | | | 0.2% of Imax | |
| Voltage (Analog Interface) | 0.2% of Vmax | | | | | | |
| Current (Analog Interface) | 0.3% of Imax | | | | | | |
| Parallel Operation*2 | Master / Slave control via CAN for 10 units up to 150kW *1 (Parallel: ten units) | | | | | up to 198kW *3 | |
| Auto Sequencing (I-V program) | | | | | | | |
| Number of program | 10 | | | | | | |
| Number of sequence | 100 | | | | | | |
| Dwell time Range | 1s ~ 15,000S | | | | | | |
| Trig. Source | Manual / Auto | | | | | | |

Note*1 : Max. Power is 20kW for 62020H-150S.

Note*2 : There is parallel mode for DC power supply when the I-V curve function is enabled.

Note*3 : For higher power > 198kW, please call for availability.

Note*4 : Recovers within 1.5ms to ±1.5% of steady-state output for a 50% to 75% or 75% to 50% load change (0.1A/ms)

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