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# PROGRAMMABLE BIDIRECTIONAL DC POWER SUPPLY MODEL 62000D SERIES

Chroma 62000D Series programmable bidirectional DC power supplies have both power source and load characteristics. Capable of feeding power from the device under test (DUT) back to the utility grid, these two-quadrant power supplies are ideal for testing energy storage systems in renewable energy applications such as solar PV/storage hybrid inverters, battery power conditioning systems (PCS), and simulating charging and discharging of energy storage batteries. 62000D also has applications in testing power components in electric vehicles (EVs) as well as bidirectional on-board chargers (BOBC), DC-DC converters, and DC-AC motor drivers, enabling bi-directional power conversion simulation tests without the need for actual batteries.

Traditional DC power supplies need protection diodes to prevent back EMF from damaging the power supply during motor testing. However, 62000D bidirectional DC power supplies can drive the motor and also efficiently regenerate EMF to the grid, avoiding the need for blocking diodes while saving space, energy, and configuration effort. In addition, the fast transient response of the 62000D enables seamless quadrant changing in less than 1.5ms (-90% to +90% load).

The 62000D series is available in 3U and 4U form factors, all boasting high power density. The 3U models come in single-unit output power ratings of 6kW/12kW/18kW, while the 4U models have single-unit output power rated 30kW/36kW/45kW. The 62000D-HL model features unique dual-range output capability, allowing a single unit to provide both High (2000V/60A/45kW) and Low (650V/180A/45kW) output ranges. This enables the unit to meet high-current, full-power test conditions of the DUT while also meeting high-voltage, full-power test requirements, suitable for wide-ranging testing needs such as the 400V and 800V battery platforms used by EVs and EV supply equipment (EVSE).

The 62000D series supports up to 100 programmable sequences through its List Mode feature. Its fast transient response time meets many testing needs, including those defined in the LV123 and LV148 standards for EV components. When used with Chroma's SoftPanel software, users can conveniently conduct complex tests with a simple press of a button.

All 62000D series models feature master–slave parallel operation. The 62450D-2000HL can deliver 360kW of output power within a standard 19-inch, 41U rack, and supports cross-rack paralleling for up to 1.8MW total output, fully covering the power requirements of AI server HVDC rack power (PSU/Power Shelf/Rack Power). In addition, the High/Low dual-range design meets testing needs for both ±400V and 800V HVDC power architectures, suitable for reliability testing and burn-in testing.

USB LAN APG CAN FD CAN GPIB CE RoHS2 Compliant

## MODEL 62000D SERIES

### KEY FEATURES

- Voltage rating: 0 - 100V/600V/1200V/1300V/1800V/2000V
- Current rating: 0 - 540A
- Power rating: 6kW/12kW/18kW@3UH 30kW/36kW/45kW@4UH
- Dual output ranges in one-click switching (62000D-HL models)
- Two-quadrant operation: source and load functions
- High power density: 45kW in 4U
- Easy master/slave parallel & series *1 operation up to 1.8MW
- Wide range of voltage & current combinations in constant power
- Auto sequencing programming
- Voltage & current slew rate control
- High speed transient response <1.5ms
- Low output noise and ripple
- Standard USB/LAN/APG interfaces, optional CAN/CAN FD/GPIB interfaces (CAN FD is supported on 1300V/2000V models)
- Solar array simulation function *2 (optional)

*1: 100V/600V models support series operation.
2000V (45kW) models support parallel operation up to 1.8MW.
*2: This function supports above 600V models

### APPLICATIONS

- Charge/discharge testing and life cycle testing, including BOBC, DC-DC conversion, and PCS
- Motor driver testing
- Reliability testing of AI server HVDC power architectures
- Used as battery simulation source for microgrid applications
- Suitable for 1500V string PV inverter testing

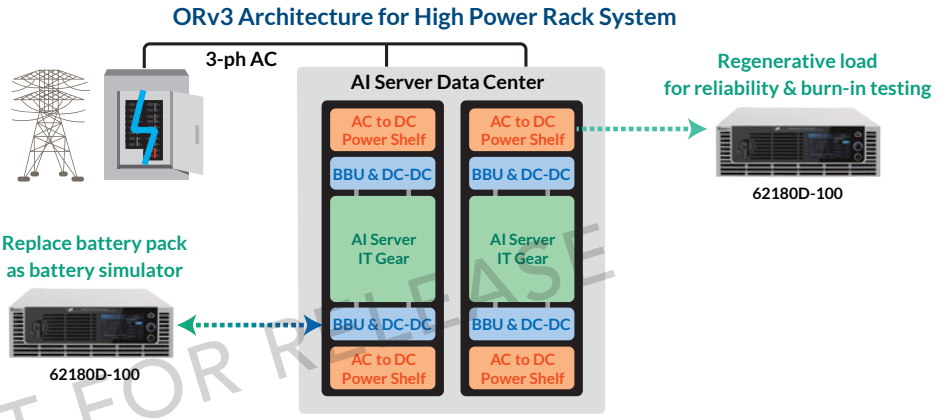


Chroma
Advancing Excellence

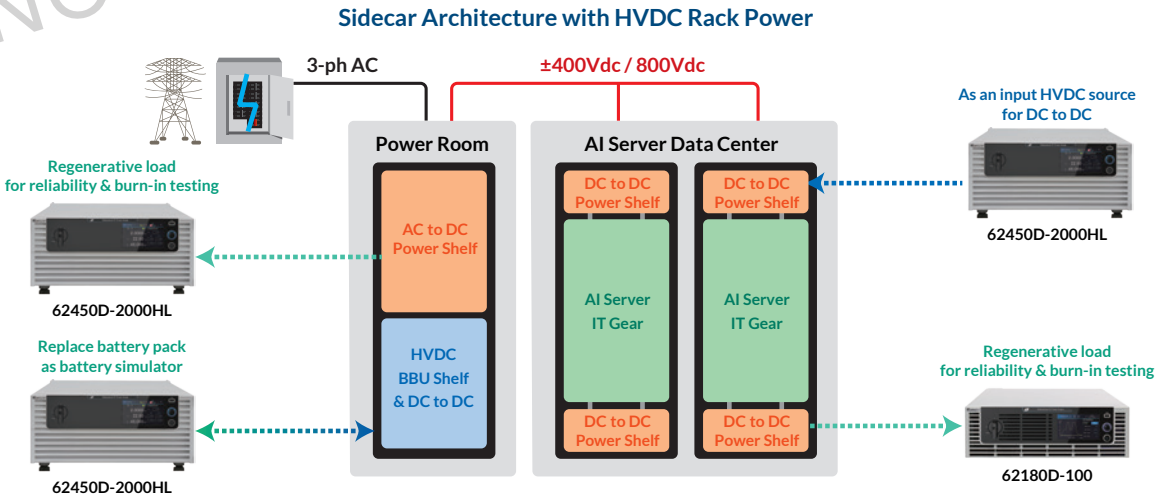
## AI SERVER POWER & SOURCE/LOAD BIDIRECTIONAL TEST SOLUTION

As training and inference for AI models scale up to continuous, high-efficiency computation, high-power supplies face tougher requirements for stability and performance. In addition to the ORv3 HPR architecture, high-voltage DC "Sidecar" architectures are also emerging, with ±400V and 800V DC serving as the primary distribution buses. This approach reduces line losses, improves power delivery efficiency, frees up rack space, and enables high-density deployment with flexible power management.

The figures below show AI servers in data centers using the ORv3 HPR and HVDC power architectures, and how the 62000D Series provides a bidirectional source/load test solution for both.




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### Example: Sidecar HVDC Architecture

For long-duration operations such as system reliability tests and burn-in tests of AC-DC converters (PSU/Power Shelf/Rack Power) in a Sidecar HVDC architecture, the 62450D-2000HL features a built-in regenerative load that feeds energy generated during testing back to the grid. Under rated conditions, recovery efficiency reaches up to 94%, helping save energy and reduce carbon emissions, lower electricity costs, and ease the burden on cooling systems.

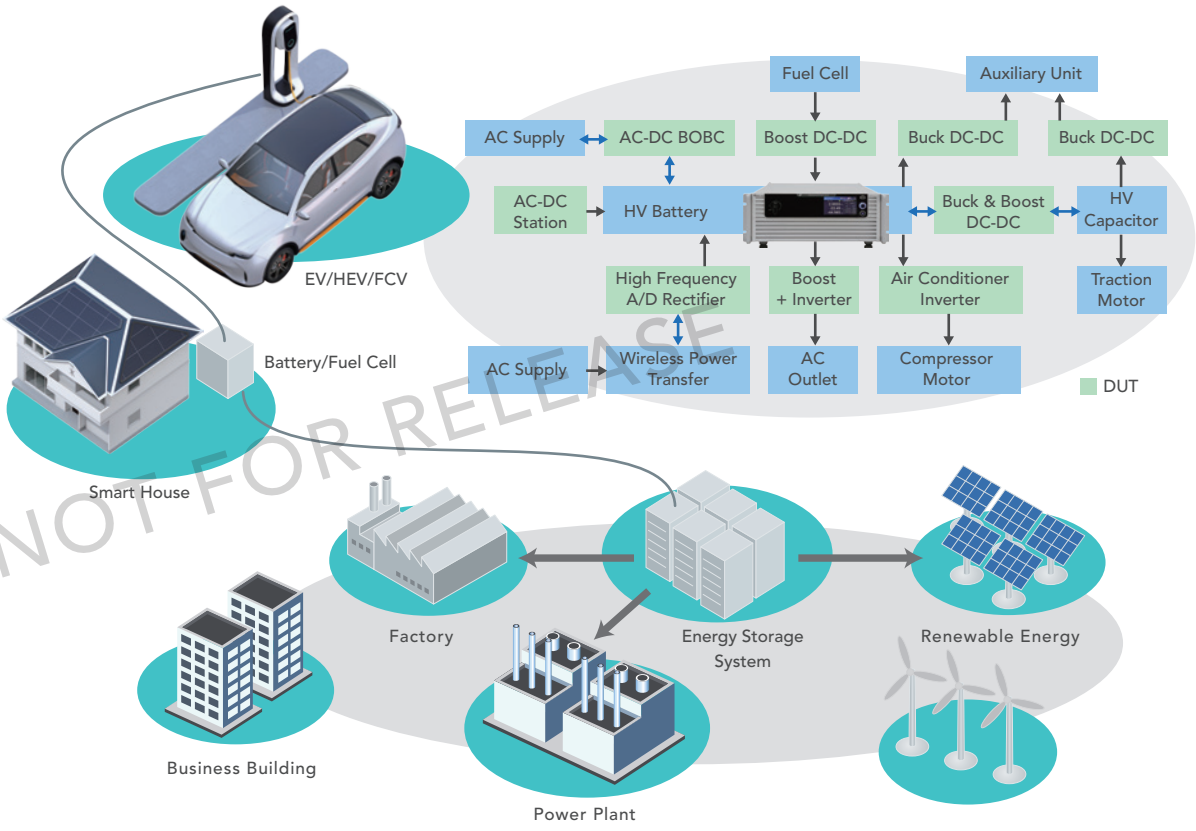
To meet HVDC requirements of ±400V and 800V, the 62450D-2000HL adopts a unique High/Low dual-range design. For DUTs at ±400V, switch to the Low range to obtain a wider current operating window at rated power. For DUTs at 800V, switch to the High range to cover the higher-voltage operating range. A single model thus meets testing needs for both ±400V and 800V at rated power.

For DC-DC converters (PSU/Power Shelf/Rack Power) that step HVDC down to 50V, the 62450D-2000HL can serve as the HVDC input source, while the 62180D-100 is used as the 50V load on the DUT output. This flexible setup, combined with high-efficiency energy recovery, supports long-duration reliability and burn-in testing.

For battery backup units (BBUs) and their internal bidirectional DC/DC converters, the 62450D-2000HL can replicate battery-pack characteristics as a battery simulator. When charging the BBU, the 62450D-2000HL operates as a load, allowing the bidirectional DC/DC converter to draw power. When discharging the BBU, it operates as a source, supplying power to the bidirectional DC/DC converter.

## POWER CONVERSION TESTING OF ELECTRIC VEHICLES AND MICROGRID STORAGE

Renewable energy technologies such as photovoltaics (PV), EVs, fuel cells, and batteries are rapidly gaining traction as replacements for traditional energy sources like coal and oil. These technologies demand more electricity, which in turn has caused microgrids to emerge as a critical component of the modern power grid. The bidirectional design of power conversion devices pushes battery applications toward achieving higher efficiency, voltage conversion, and power density, prompting the need for battery simulation (bidirectional power supply) testing designs.




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With the widespread use of EVs, there is also a corresponding demand for sound residential, commercial, and city charging networks. This has resulted in a smart grid and energy storage system ecology—from 5kW-30kW smart home charging/storage systems, to 30kW-500kW integrated commercial PV/storage/charging stations, to dispersed large-scale MW-level storage combined with renewable energy sources like solar, wind, and fuel cells. With voltage systems for these high power applications also developing toward 1500V-2000V, battery simulation equipment for related power conversion devices also needs to meet these voltage and power requirements.

As for the test equipment needs of high power conversion devices like PCS, ESS, chargers, and inverters, users often need to consider factors like size, weight, equipment utilization rate, flexible disassembly/re-assembly into multiple power systems for flexible scheduling, and system fault maintenance time affecting R&D and production. The 62000D-HL bidirectional DC power supply features master/slave parallel control capabilities. Single-unit parallel operation is simple and fast. Integrated into a cabinet, these power supplies are suitable for testing string-type PV inverters, able to separately supply multiple MPPT inputs, or quickly parallel to high power input—convenient for use in R&D labs, validation units, and production lines.



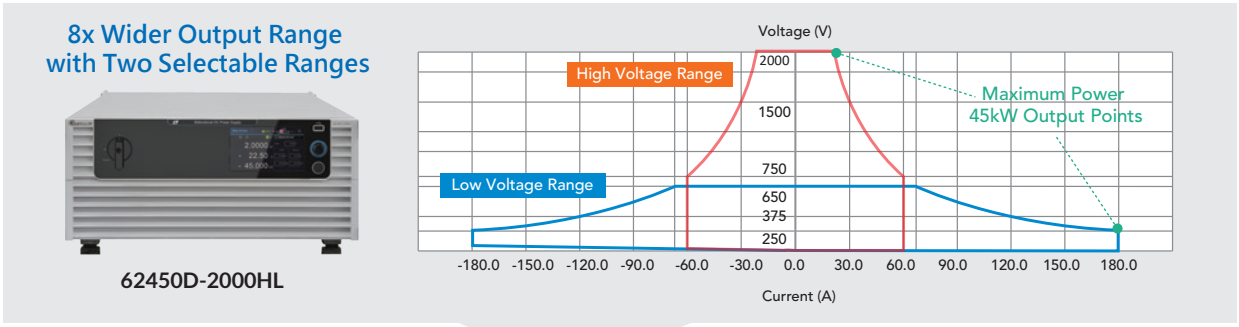
62450D-2000HL
Master/Slave Parallel in a Single Cabinet up to 360kW
* Please call for more information

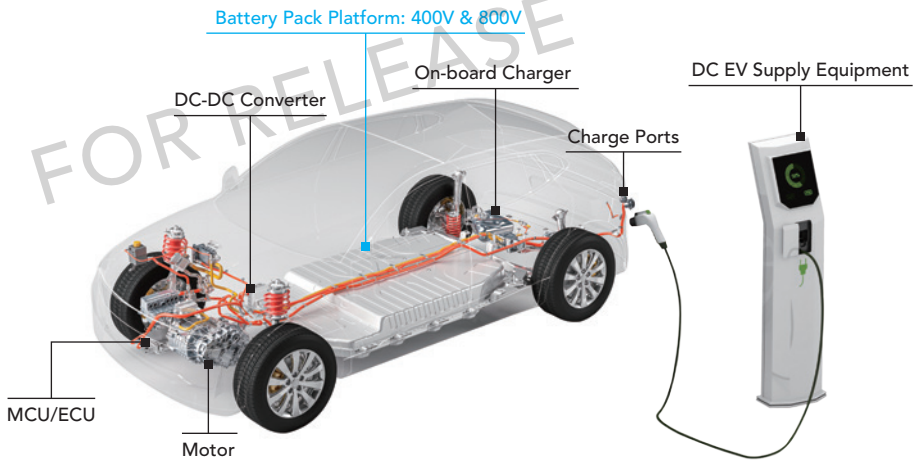
## NEXT-GENERATION 62000D-HL MODEL FEATURES HIGH POWER DENSITY 45KW@4UH AND DUAL OUTPUT RANGES IN ONE-CLICK SWITCHING

With the maturation of SiC semiconductor devices and the gradual increase in charging standard voltages, EVs are developing toward improved charging efficiency and range by evolving their battery platforms from 400V to 800V. This in turn is driving up the voltages for on-board electrical control systems like BOBC, DC-DC, motor control units (MCUs), and inverters.

Taking a 22kW bidirectional on-board charger (BOBC) compatible with both 400V and 800V as an example, the typical voltage range would be 200V-900V or even higher. The design of the test equipment must account for rated test conditions as well as over-voltage (>130%) protection test margins. Generally, the maximum charging current falls within the 200V-450V range, so current also needs to consider ripple peaks and over-current (>120%-150%) protection test ranges. Under such an operating range, users may need one high-voltage bidirectional DC power supply over 1200V, as well as another with at least 120A current capability. The Chroma 62000D-HL model satisfies this ultra-wide operating range requirement with a single device.

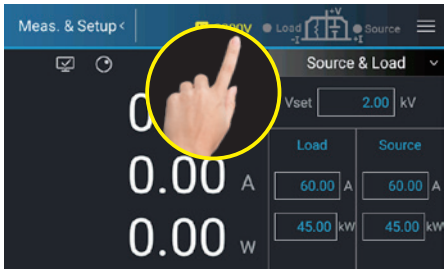
The 62000D-HL bidirectional DC power supply features two ultra-wide output ranges within a single unit. For the 62450D-2000HL model, the High range provides 2000V/60A/45kW, while the Low range offers 650V/180A/45kW. Users can easily switch between the needed ranges to meet test conditions requiring either high voltage or high current. With such a wide operating range, in addition to the High range satisfying high voltage test points, users can even utilize the Low range's high current capability in load mode to perform long-term reliability testing on two devices under test with a single piece of equipment.

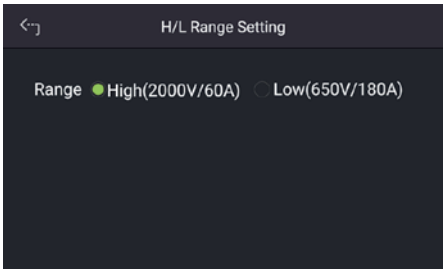


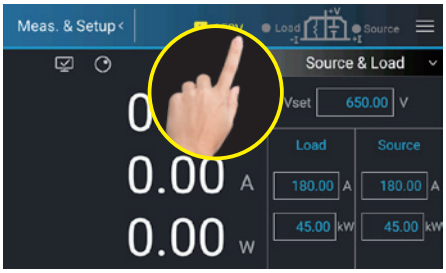




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Users can switch between the 62000D-HL model's dual output ranges by simply pressing the switch on the front panel touchscreen, or by sending a remote command. In an automated test equipment (ATE) production line system, only one 62450D-2000HL is needed - switching between the High/Low ranges via command satisfies both output range operations. After switching, the test instructions can proceed without interruption. Users do not need additional manual disassembly/re-assembly of bridging fixtures at the equipment output terminals, making for a seamless and safe testing experience.

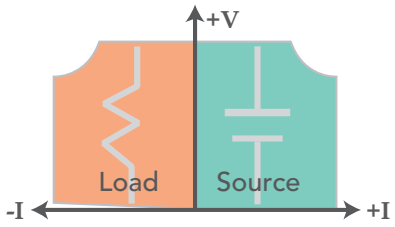


## TWO-IN-ONE: BIDIRECTIONAL DC POWER SUPPLY AND LOAD

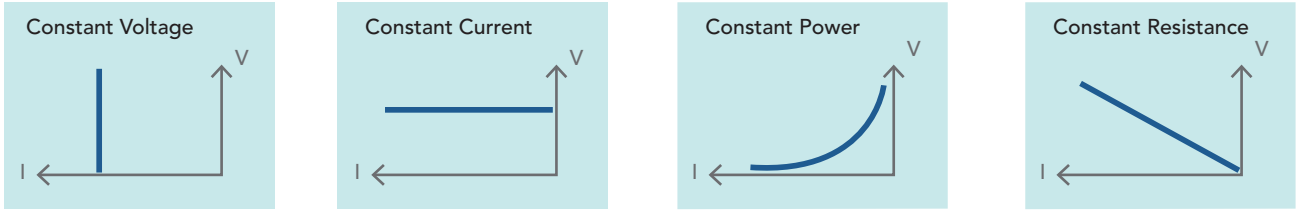
The Chroma 62000D boasts a bidirectional switch-mode power supply design that offers two-quadrant operation with positive current/positive voltage as well as negative current/positive voltage, enabling both DC power supply output and regenerative DC load. The absorbed energy is fed back to the grid with up to 93% efficiency and can operate in constant voltage (CV), constant current (CC), and constant power (CP) mode. Compared to a traditional power supply and load, the 62000D two-in-one bidirectional DC power supply saves space, reduces energy loss and heat dissipation, and is easier to wire and configure.



Two-in-one source & load

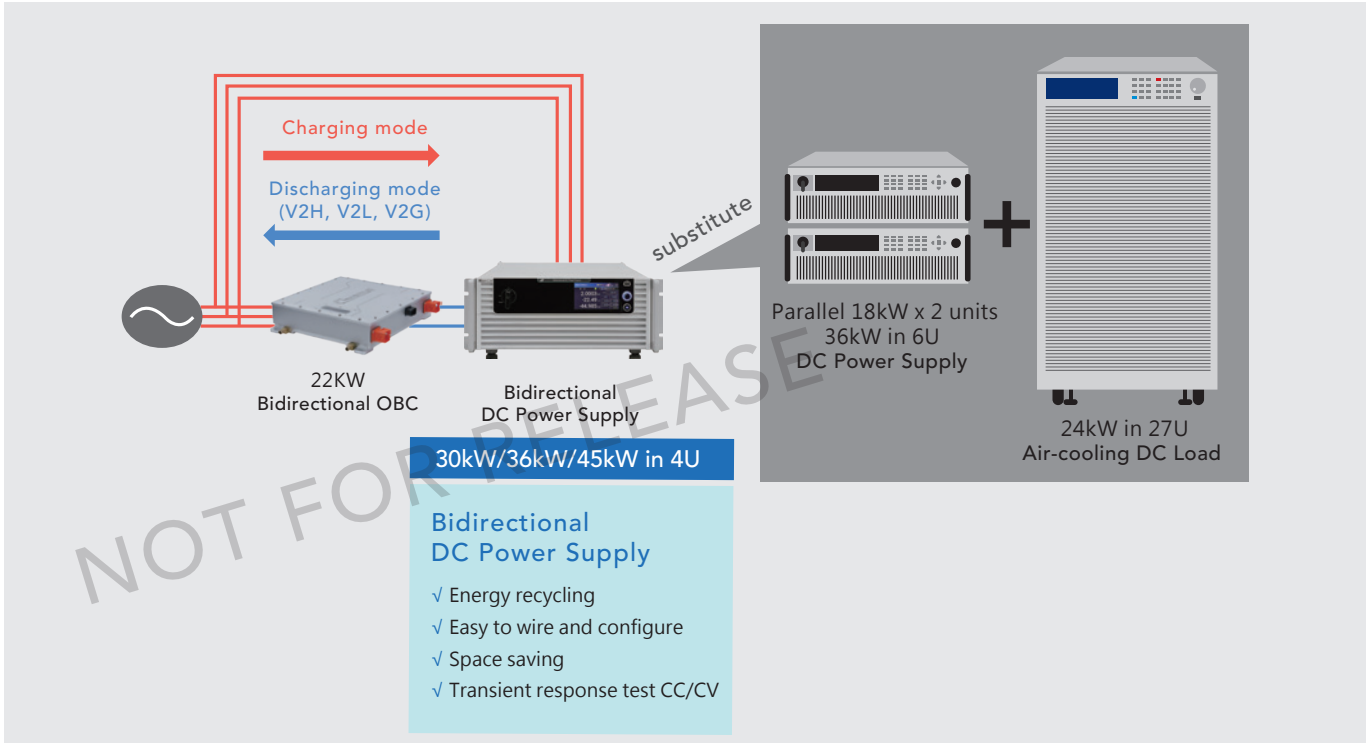
The 62000D series supports three basic operating modes:

- Source & Load Mode - CC, CV, CP, CR, Ri
- Source Mode - CC, CV, CP, Ri
- Load Mode - CC, CP, CR



Electrical load functions

Today's electric cars typically carry on-board chargers that manage power flow bidirectionally between the vehicle and the grid for operations such as V2G (Vehicle to Grid), V2L (Vehicle to Load), and V2H (Vehicle to Home). The 62000D also offers a pure electronic load mode with constant current (CC), constant power (CP), and constant resistance (CR) control, especially useful for simulating battery charging behavior during development and testing of BOBCs. In contrast to traditional methods requiring separate instruments for DC power supply and regenerative DC load, a single Chroma 62000D unit now suffices for conducting both charging and discharging tests autonomously.

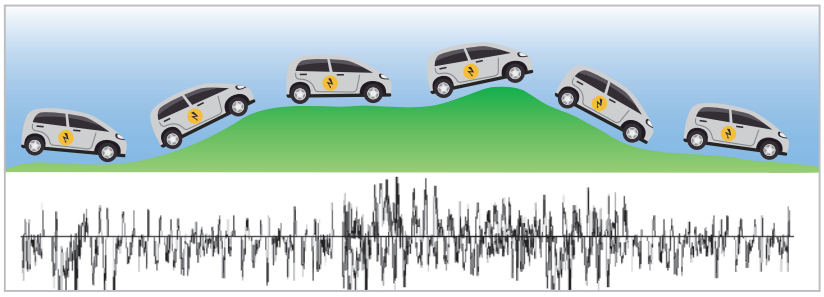


Bidirectional on-board charger testing configuration

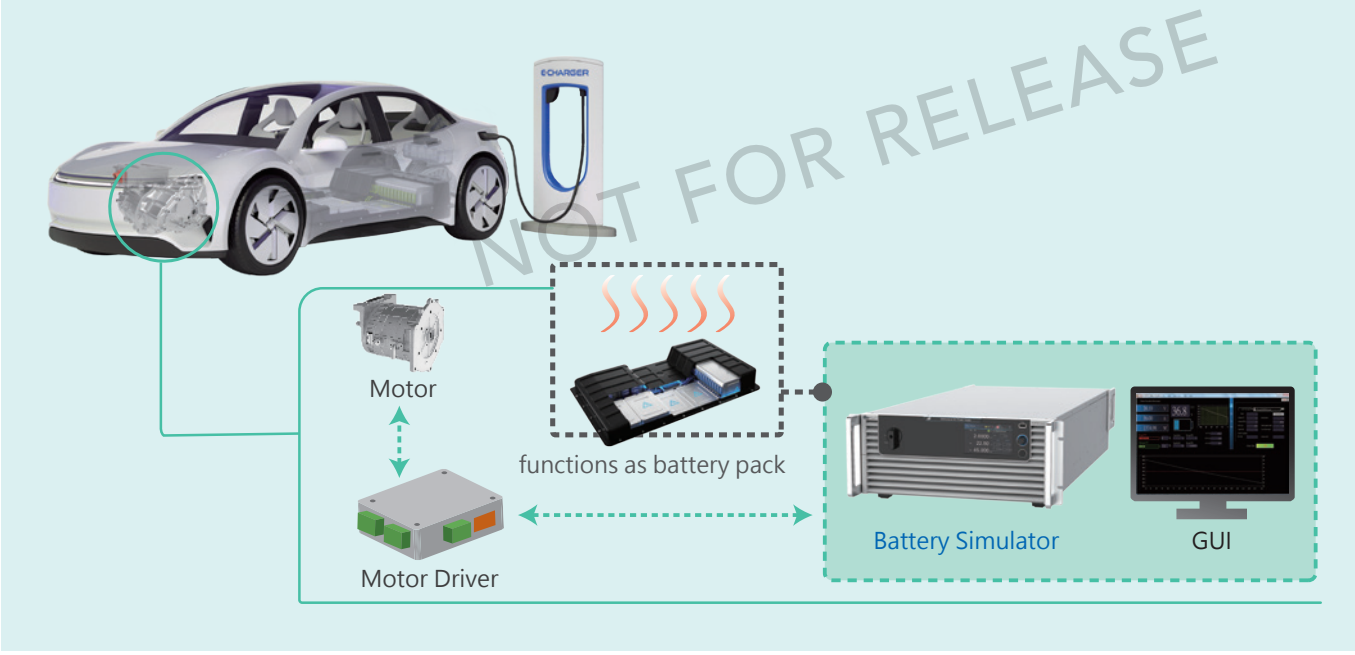
## FAST TRANSIENT RESPONSE <1.5MS

Chroma 62000D allows seamless current conversion between the two quadrants of supply and electrical load without compromising output characteristics or causing damage. In many bidirectional DC-DC and DC-AC battery charge/discharge tests demanding rapid transition between charging and discharging, the 62000D's high-speed transient response proves invaluable, boasting an output voltage response time of less than 1.5ms for a -90% to +90% load change.

To assess acceleration and braking of the motor driver under real-world driving conditions, the conversion between battery and power components will involve supply and recharge of electrical energy. The 62000D's fast transient response across two quadrants adeptly simulates the battery according to the actual needs of the motor, offering stable voltage and enabling current recharge during braking.



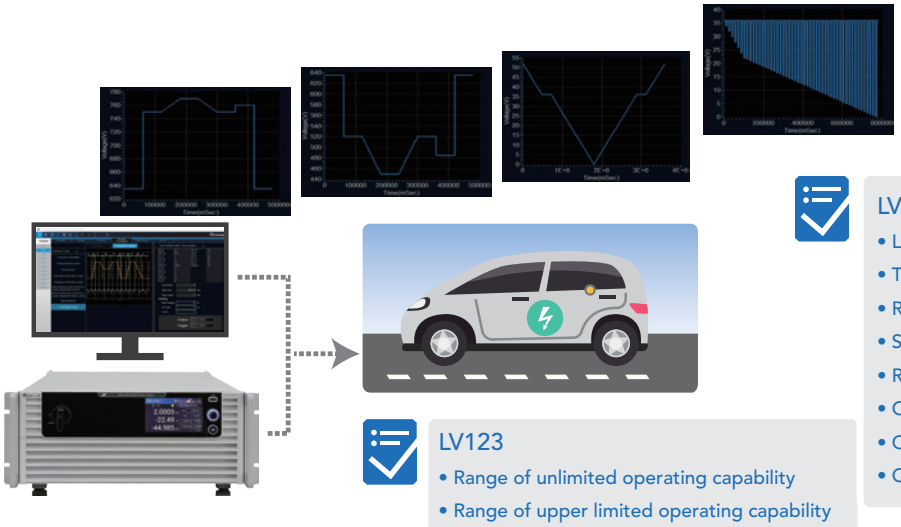
Simulation of actual driving conditions




Start-stop system motor driver test application

## TESTING STANDARDS LV123 AND LV 148

Driven by global energy efficiency and carbon reduction trends, the auto industry has established technical development standards that define tests for a variety of electric vehicles. The LV123 standard specifies the electrical characteristics and safety standards for high-voltage components, while the LV148 covers tests for electric and electronic components in 48V electrical system motor vehicles. Chroma 62000D has a high-speed CV dynamic response slope that can be controlled up to 200V/ms, applicable to the electrical characteristics tests of many vehicle standards. When used with the Chroma SoftPanel, users can execute all these tests effortlessly at the push of a button.



### LV123

- Range of unlimited operating capability
- Range of upper limited operating capability
- Range of lower limited operating capability
- Range of highly limited operating capability

### LV148

- Long-term overvoltage
- Transient pulse in the lower operating range
- Recuperation
- Slow reduction and slow increase of supply voltage
- Reset behavior
- Operation in the upper range with functional restrictio
- Operation in the lower range with functional restrictio
- Overvoltage range

## BATTERY SIMULATION FUNCTION

The 62000D serves as a bidirectional DC power supply capable of being charged or discharged by an external power source. When used with software, 62000D units become battery simulators that can replicate operation at various capacities (SOC) or import specific battery characteristics V-I curves. This capability facilitates product evaluation under diverse battery capacities and characteristics. Suitable for testing an array of products like BOBC, PCS, ESS, or motor drivers, the 62000D series offers a versatile solution for battery simulation needs.




## BATTERY CHARGE-DISCHARGE MODE

The 62000D bidirectional DC power supply offers source and load operations, with a typical application being to test the electrical CC-CV characteristics of batteries. When verifying battery specifications, it's necessary to conduct tests under standard charging and discharging conditions, including capacity tests after charging and discharging at various temperatures, as well as End-of-Line (EOL) charging and discharging test parameters. All these tests can be easily executed using the 62000D alone. Catering to common EV/HEV batteries ranging from 12V/24V/48V low-voltage battery packs to 200V/400V/800V high-voltage battery packs, the voltage and current ranges of the 62000D comprehensively cover various testing applications. The 62000D also features a built-in Charge-Discharge mode tailored for batteries, which can measure battery voltage and current and calculate battery capacity (Ah). Users can conveniently implement cycling or auto-stop charge and discharge tests by setting cut-off conditions.




62000D | Pre-charge and Safety Controller | Battery

* When connecting the 62000D to the battery, it is necessary to add a safety pre-charging circuit to avoid inrush current to protect the battery and equipment. For more information, please contact your local Chroma office.

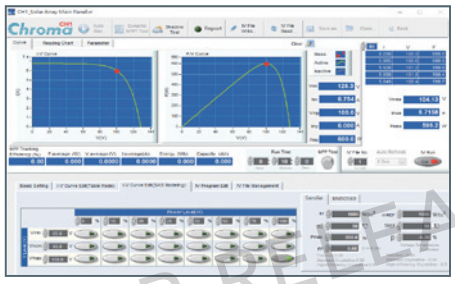
## SOLAR ARRAY SIMULATION FUNCTION (OPTIONAL)

The 600V/1200V/1300V/1800V/2000V models have built-in EN50530 and Sandia SAS models that allow users to easily program different solar cell I-V characteristic outputs via the front panel or remote SCPI control. The SoftPanel software includes static & dynamic MPPT test, shadowed I-V curve simulation, real-world weather-based I-V curve variation testing, and automatic static & dynamic MPPT tests with report generation in Excel format, ideal for validating the performance of series-connected PV inverters. Additionally, the 62000D series models support master/slave parallel configuration of up to 40 units, with output specifications reaching 1.8MW respectively. This enables adaptation for testing high-voltage 1100V to 2000V commercial (15k-500kW) string inverters and distributed energy resource (150k-1MW) inverters.

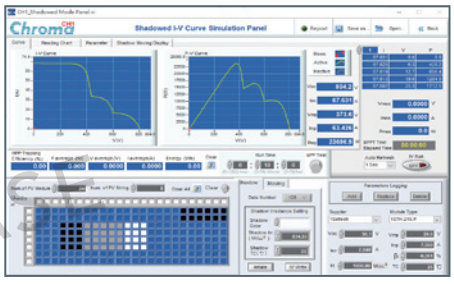
* For models that support paralleling up to 40 units, please refer to the specifications or call for more information.



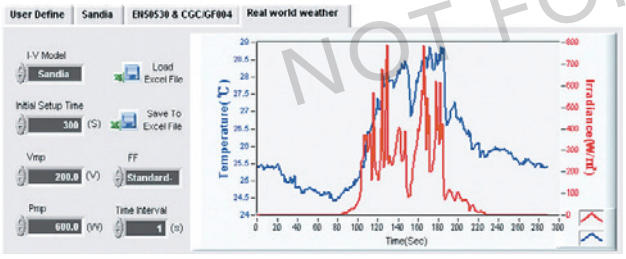
EN50530 & Sandia Dynamic MPPT Test



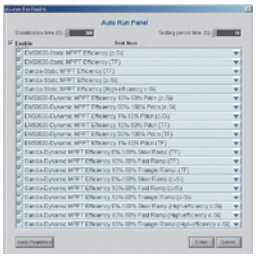
Static MPPT Test



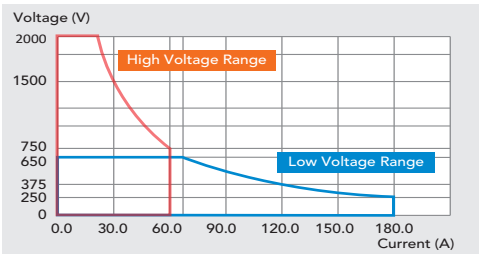
Shadow I-V Curve Simulation




Real World Weather Simulation



Auto Run Report

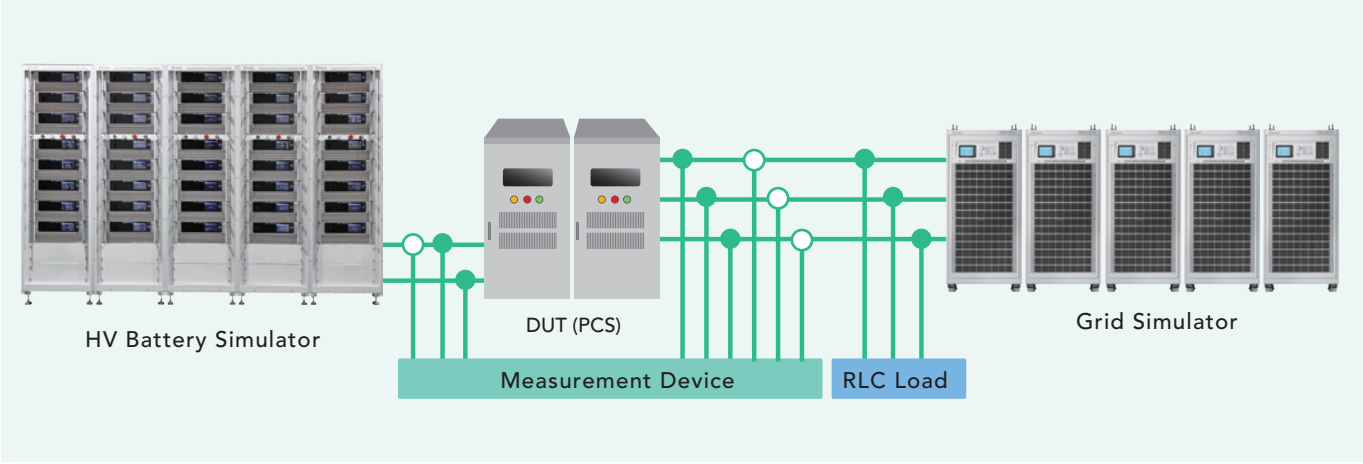



62450D-2000HL Operating Region in Source Mode

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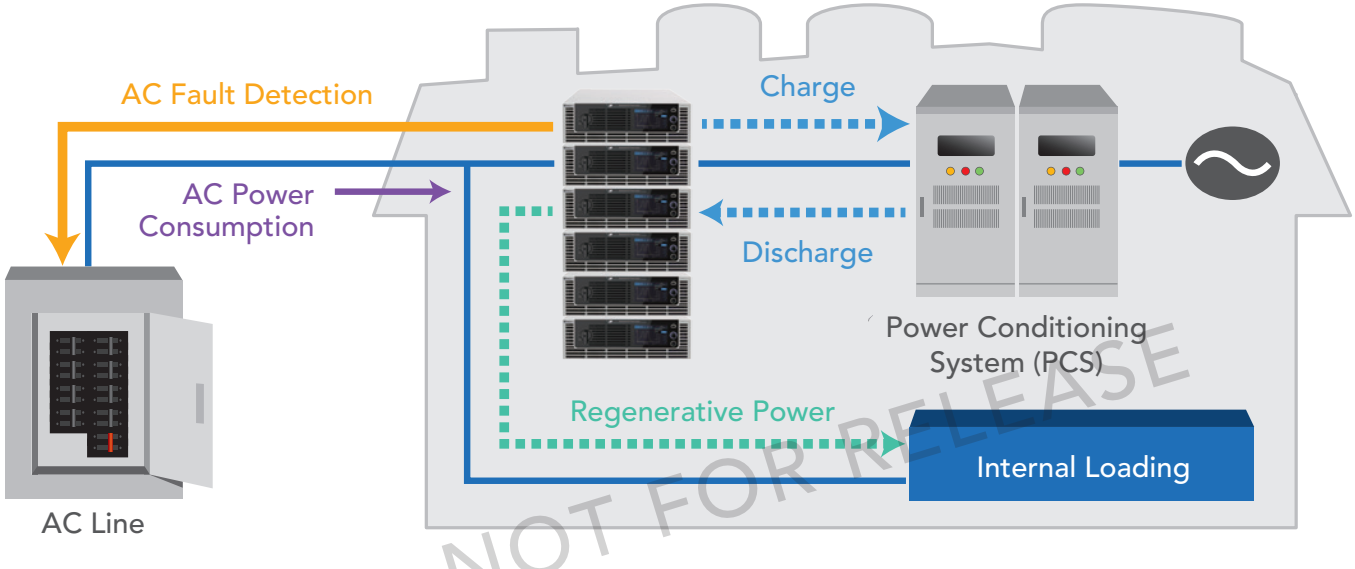
## HIGH VOLTAGE PCS TESTING

A power conditioning system (PCS) serves to facilitate bidirectional power conversion between battery systems and the grid, with the latest devices boasting terminal battery voltages of up to 1500V, featuring charge/discharge functionality, active power control, reactive power regulation, and off-grid switching. A common issue for users is how to prepare an actual high-voltage battery for testing the charge/discharge transition performance of PCS units, typically with a standard transition time of <100ms. Achieving this level of performance while ensuring R&D verification, manufacturing reproducibility, controllability, and safety can be daunting. With the high-voltage 62450D-2000HL model, users can parallel up to 40 units to achieve an output of 2000V/7200A/1.8MW. This setup effectively replaces real battery simulation as either a power supply or regenerative load, allowing for continuous transient response testing with an uninterrupted flow of current.




## SAFETY AND AC FAULT PROTECTION

Chroma 62000D bidirectional DC power supplies have energy recycling functionality that returns energy to the grid. The internal protection design serves to identify input voltage and frequency anomalies. When detecting any anomalies, the 62000D will automatically turn off the output to ensure safe use of the grid. The 62000D is set up with OVP, OCP, OPP, OTP, Fan Fail, and AC Fault protection circuits. AC Fault protection includes OVP, UVP, Unbalance, Freq. Error, and OCP.

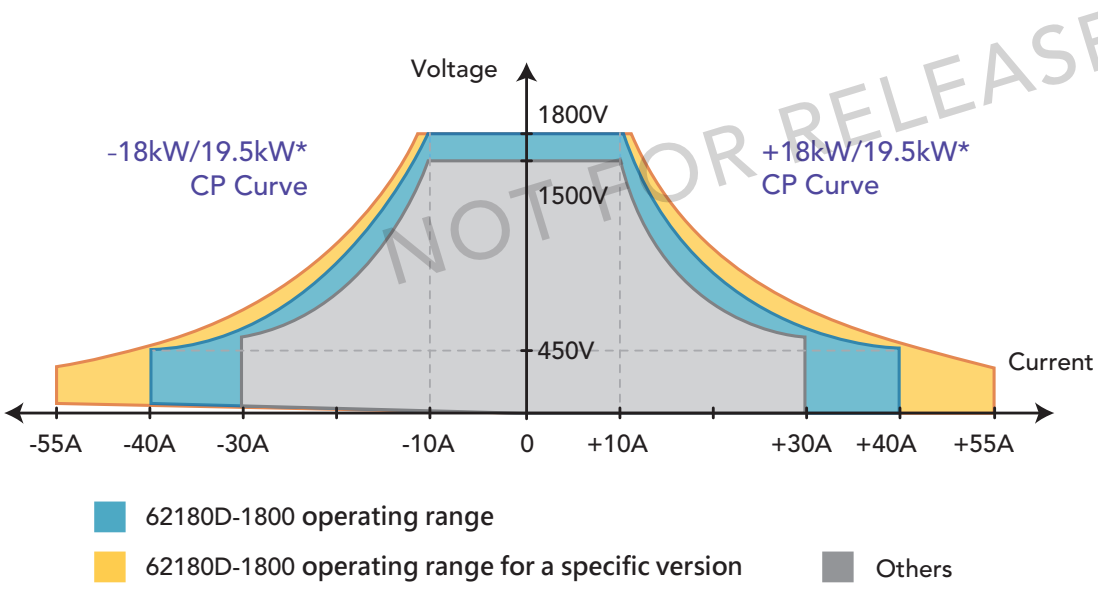



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## ADVANCED ULTRA-WIDE OUTPUT RANGE

For testing of 11kW BOBC, taking into consideration maximum current ripple, inrush currents generated during vehicle DC-DC startup, etc., the test equipment must be able to provide approximately 20%-50% current margin beyond the steady-state charging current specifications. Therefore, for models 62120D-1200 and 62180D-1200, Chroma has further enhanced the current capability under ambient temperature conditions and for specific versions, achieving an output range of 1200V/55A/13kW-19.5kW.

For string PV inverter test applications, to cover residential to commercial power needs including 1.5x overdimensioning, the maximum short-circuit current per MPPT channel has been gradually increasing. Facing this equipment demand, the current provided per MPPT channel also gets a boost. For the 62180D-1800 model, the voltage meets the needs of 1100V and 1500V systems, while the current has been enhanced to 55A. Under ambient temperature conditions and for specific versions, the output range reaches 1800V/55A/19.5kW. Please refer to the specification sheets for related conditions.



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## UNIVERSAL AC POWER RRANGE 200 TO 480VAC

Chroma 62000D bidirectional DC power supplies are equipped with an active PFC >0.97 for low energy consumption and high conversion efficiency. Moreover, to fit the universal AC power input range, the 62000D series has a very wide input power range of three-phase 200-220Vac and 380-480Vac. Users can purchase one single device without having to configure it for use in other areas.

* Models 62300D-1300HL, 62360D-2000HL and 62450D-2000HL have an input voltage range of 3-phase 380-480Vac.

## REMOTE CONTROL

Chroma 62000D supports various communication interfaces, allowing users to connect and control the unit via standard USB, LAN, and optional GPIB interfaces with a PC. It also features a CAN interface compliant with CAN 2.0 A&B specifications for both 11-bit and 29-bit formats, enabling high-speed reading of V/I/P parameters within 10ms.

## USER-FRIENDLY INTERFACE

Chroma 62000D sports a next-generation GUI with an intuitive, smart-phone like touch panel. Using the icons on the touchscreen interface, the user can perform any voltage/current settings and measurements, program sequence control settings, preview output waveforms, and more.



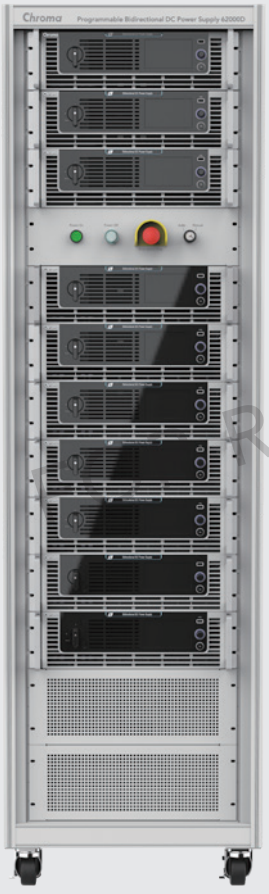
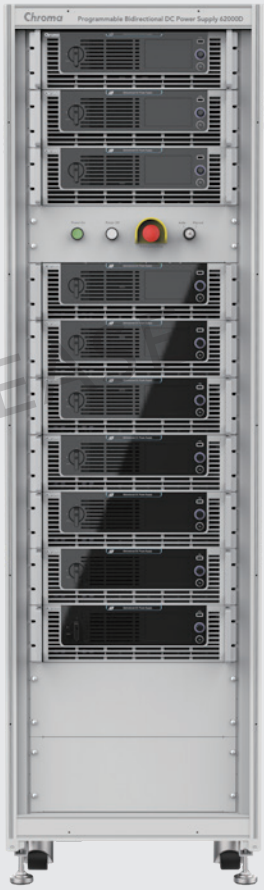
Control interface

## STANDARD RACK INTEGRATION FOR HIGH-POWER BIDIRECTIONAL DC POWER

With the high power-density design of the 62000D series, higher-power configurations can be realized in a standard 19-inch, 41U rack. To meet different paralleling needs across models, Chroma offers rack solutions matched to each model, enabling up to 360kW of bidirectional DC power in a 41U rack. Cross-cabinet system integration further scales total output to as much as 1.8MW, meeting the high-power test demands of AI servers, DC fast chargers, battery energy storage systems, and renewable energy applications.

Standardized racks make it easy to deploy multi-unit configurations. Depending on requirements, options are available for high current, high voltage, or high power density.

- A620052 rack: pairs with 62000D low-voltage models; up to 10 units per rack for 180kW total output.
- A620053 rack: pairs with 62000D high-voltage models; up to 10 units per rack for 180kW total output.
- A620054 rack: pairs with the 62000D-HL dual-range model; up to 8 units per rack for 360kW total output.

| Rack Model | A620052 | A620053 | A620054 |
|---|---|---|---|
| Input Voltage | 380Vac (3P4W) | 380Vac (3P4W) | 380Vac (3P4W) |
| Compatible Unit Models | 62000D (100V) | 62000D (600V/1200V/1800V) | 62300D-1300HL<br>62360D-2000HL<br>62450D-2000HL |
| Single-Unit Height | 3U | 3U | 4U |
| Max. Units Per Rack | 10 pcs | 10 pcs | 8 pcs |
| Max. Current | 5400A | 1200A | 1440A |
| Max. Power | 180kW | 180kW | 360kW |
| Function | Source/Load | Source/Load | Source/Load |
| Key Feature | High-current capability | High output voltage | High output voltage (high power density) |
| |  |  |  |

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Note: For multi-cabinet paralleling, optional copper busbar connection kits are available. The rack's side panels also include pre-drilled holes for convenient lateral busbar interconnection (currently applicable to A620052 / A620054). For details, please contact your local Chroma office.

## Full Rack Interface

The rack's front panel provides a master power switch and an Emergency Stop switch with two modes (Auto/Manual). In Auto mode, the E-stop trips automatically if the rear door is opened unexpectedly; in Manual mode it functions as a standard emergency stop, enabling simple power control and safe testing.

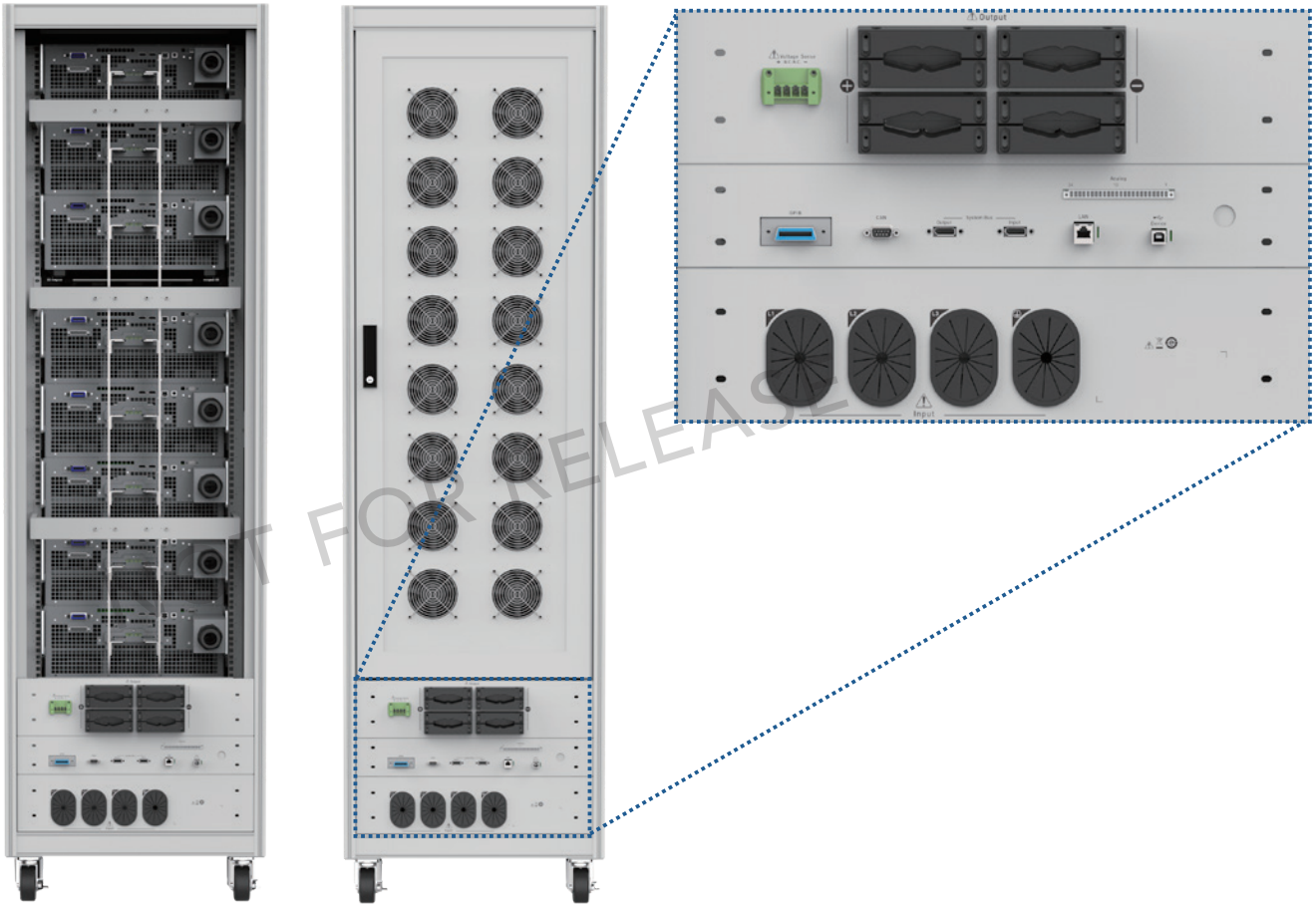
Rack Front Switch Panel




The rear of the rack provides a full set of interfaces for easy integration, including GPIB/LAN/CAN, USB Type-B, a system bus for rack paralleling, analog I/O, and voltage sensing terminals. Openings are reserved for AC power-cable entry and DC-cable connections.

With the rear door open, you can see positive and negative copper busbars running the height of the rack, paralleling the outputs of all units to achieve high-power output. The rear door integrates an array of exhaust fans, preventing heat buildup to ensure normal operation. The fan-start temperature can be set to reduce noise during standby.

Rack Rear Interface Panel



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A620052: 62XXXD-100 dedicated 41U paralleling rack*
A620053: 62XXXD-600/1200/1800 dedicated 41U paralleling rack
A620054: 62XXXD-1300HL/2000HL dedicated 41U paralleling rack*

* For specific requirements, please contact your local Chroma office.

## SCALE TO MEGAWATT CLASS

By integrating five racks housing 40 units of 62450D-2000HL programmable bidirectional DC power supplies, a 1.8MW turnkey test platform can be built, resulting in significant savings on both lab floor space and system-integration. The system provides dual-range operation with simple switching: High 2000V / 2400A / 1.8MW; Low 650V / 7200A / 1.8MW.

For megawatt-class testing, this modular architecture delivers high power density and a wide voltage window, enabling flexible emulation across high-power, energy-storage, EV, and AI power scenarios. Whether for high-power performance verification or long-duration stability testing, it supplies a stable, repeatable, high-precision DC output—an indispensable tool that accelerates product development and qualification.



1.8MW






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## SPECIFICATIONS - 1 (100V & 600V Models)

| Model | 62060D-100 | 62120D-100 | 62180D-100 | 62060D-600 | 62120D-600 | 62180D-600 |
|---|---|---|---|---|---|---|
| Source/Sink Ratings | | | | | | |
| Source/Sink Voltage | 0-100V | | | 0-600V | | |
| Source/Sink Current | ±180A | ±360A | ±540A | ±40A | ±80A | ±120A |
| Source/Sink Power *1 | ±6000W | ±12000W | ±18000W | ±6000W | ±12000W | ±18000W |
| Min. Load Voltage (@ I Load Max.) *2 | 5V | | | 30V | | |
| 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*3 | | | | | | |
| Range | 20V / 100V | | | 120V / 600V | | |
| Accuracy | 0.05% + 0.05%F.S. | | | | | |
| Current Measurement*3 | | | | | | |
| Range | 36A / 180A | 72A / 360A | 108A / 540A | 8A / 40A | 16A / 80A | 24A / 120A |
| Accuracy | 0.1% + 0.1%F.S. | | | | | |
| Output Noise & Ripple | | | | | | |
| P-P (20MHz) | 150 mV | | | 420mV | | |
| rms (Voltage) | 25 mV | | | 85mV | | |
| rms (Current) | 150mA | 300mA | 450mA | 30mA | 60mA | 90mA |
| Programming Response Time | | | | | | |
| Rise Time (Full Load) | 10 ms | | | 20ms | | |
| Rise Time (No Load) | 10 ms | | | 10 ms | | |
| Fall Time (Full Load) | 10 ms | | | 20ms | | |
| Fall Time (No Load) | 10 ms | | | 10 ms | | |
| Slew Rate Control | | | | | | |
| Voltage slew rate range | 0.001V/ms - 10V/ms | | | 0.001V/ms - 60V/ms | | |
| Current slew rate range | 0.001A-10A/ms | 0.001A-20A/ms | 0.001A-30A/ms | 0.001A-20A/ms | 0.001A-40A/ms | 0.001A-60A/ms |
| Minimum transition time (CV) | 0.5ms | | | 0.5ms | | |
| Transient Response Time (CV) | Recovers within 500μs to ±0.75% of steady-state output for a 50% to 100% or 100% to 50% load change (1A/μs) | | | | | |
| Operating Mode | | | | | | |
| Source | CC, CV, CP, Ri | | | | | |
| Load | CC, CR, CP | | | | | |
| Source & Load | CC, CV, CP, CR, Ri | | | | | |
| Efficiency (Typical) | Source > 0.91 Sink > 0.90 | Source > 0.91 Sink > 0.90 | Source > 0.92 Sink > 0.90 | Source > 0.91 Sink > 0.92 | Source > 0.92 Sink > 0.93 | Source > 0.92 Sink > 0.93 |
| Drift (30 minutes) | | | | | | |
| Voltage | 0.04% of Vmax | | | 0.04% of Vmax | | |
| Current | 0.06% of Imax | | | 0.06% of Imax | | |
| Drift (8 hours) | | | | | | |
| Voltage | 0.02% of Vmax | | | 0.02% of Vmax | | |
| Current | 0.04% of Imax | | | 0.04% of Imax | | |
| Temperature Coefficient | | | | | | |
| Voltage | 0.04% of Vmax/°C | | | 0.04% of Vmax/°C | | |
| Current | 0.06% of Imax/°C | | | 0.06% of Imax/°C | | |

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Note *1: When input at low voltage 200Vac - 220Vac, output power rate derates to 67%; when input at high voltage 380Vac - 480Vac, output power is a full 100%. (Example: 18kW derates to 12kW at 200Vac - 220Vac.)

Note *2: The specification of minimum load voltage is the same when operating under source & load mode.

Note *3: Source mode supports high and low scale measurement accuracy. For other modes, please refer to the manual for details.

• Continued on next page ➞

## SPECIFICATIONS - 1 (100V & 600V Models)

| Model | 62060D-100 | 62120D-100 | 62180D-100 | 62060D-600 | 62120D-600 | 62180D-600 |
|---|---|---|---|---|---|---|
| **Programming & Measurement Resolution** | | | | | | |
| Voltage (Front Panel ) | 10 mV | | | 10 mV | | |
| Current (Front Panel) | 10 mA | | | 10 mA | | |
| Voltage (Digital Interface) | 0.002% of Vmax | | | 0.002% of Vmax | | |
| Current (Digital Interface) | 0.004% of Imax | | | 0.002% of Imax | | |
| Voltage (Analog Interface ) | 0.04% of Vmax | | | 0.04% of Vmax | | |
| Current (Analog Interface ) | 0.04% of Imax | | | 0.04% of Imax | | |
| **Programming Accuracy** | | | | | | |
| Voltage (Front Panel and Digital Interface) | 0.05% of Vmax | | | 0.05% of Vmax | | |
| Current (Front Panel and Digital Interface) | 0.2% of Imax | | | 0.2% of Imax | | |
| Power (Front Panel and Digital Interface) | 0.3% of Pmax | | | 0.3% of Pmax | | |
| Voltage (Analog Interface) | 0.2% of Vmax | | | 0.2% of Vmax | | |
| Current (Analog Interface) | 0.3% of Imax | | | 0.2% of Imax | | |
| **APG Measurement Accuracy** | | | | | | |
| Voltage (Analog Interface) | 0.5% of Vmax | | | 0.5% of Vmax | | |
| Current (Analog Interface) | 0.75% of Imax | | | 0.75% of Imax | | |
| **Analog Interface (I/O)** | | | | | | |
| Voltage and Current Programming Inputs (I/P) | Voltage: 0 to 10 Vdc of F.S.<br>Current: Source I: 0 to 10 Vdc of F.S.<br>Load I: 0 to 10 Vdc of F.S. | | | | | |
| Voltage and Current Monitor Output (O/P) | Voltage: 0 to 10 Vdc of F.S.<br>Current: -10 to 10 Vdc of F.S. | | | | | |
| External ON/OFF (I/P) | TTL: Active Low or High (selective) | | | | | |
| DC_ON Signal (O/P) | Level by user defined (Time delay=1ms 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 | | | | | |
| Safety Interlock (I/P) | Time accuracy: <100ms | | | | | |
| Remote Inhibit (I/P) | TTL: Active Low | | | | | |
| **OVP Adjustment Range** | | | | | | |
| Range | 0-110% programmable | | | | | |
| Accuracy | ±1% of full scale output | | | | | |
| **Auto Sequencing (List Mode)** | | | | | | |
| Number of Program | 10 | | | | | |
| Number of Sequence | 100 | | | | | |
| Dwell time Range | 2ms-15,000s | | | | | |
| Trig. Source | Manual / Auto / External | | | | | |
| **Auto Sequencing (Step Mode)** | | | | | | |
| Start Voltage | 0 to full scale | | | | | |
| End Voltage | 0 to full scale | | | | | |
| Run Time | hh : mm : ss.sss ( 00 : 00 : 00.001 to 99 : 59 : 59.99 ) | | | | | |
| Trig. Source | Auto | | | | | |
| Series & Parallel Operation by Master / Slave Control *4 | Series: 2 units<br>Parallel: 20 units | Series: 2 units<br>Parallel: 20 units | Series: 2 units<br>Parallel: 20 units | Series: 2 units<br>Parallel: 40 units | Series: 2 units<br>Parallel: 40 units | Series: 2 units<br>Parallel: 40 units |
| **Input Specification** | | | | | | |
| AC Input Voltage 3-phase, 3-wire + Ground (w/o neutral) | 3Φ 200Vac - 220Vac±10% w/o neutral<br>3Φ 380Vac - 480Vac±10% w/o neutral<br>(67% output power@200 - 220Vac input, 100% output power@380 - 480Vac input) | | | | | |
| AC Frequency Range | 47 - 63 Hz | | | | | |
| Power Factor | >0.97 | | | | | |
| **General Specification** | | | | | | |
| Maximum Remote Sense Line Drop Compensation | 2% of full scale voltage per line (4% total) | | | 2% of full scale voltage per line (4% total) | | |
| Operating Temperature Range | 0℃ - 40℃ | | | | | |
| Storage Temperature Range | -25℃ - 70℃ | | | | | |
| Dimension Size (HxWxD) mm | 133 x 428 x 730 mm / 5.23 x 16.85 x 28.74 inch | | | | | |
| Weight (kg) | 29.6 kg/65.25 lbs | 37.5 kg/82.67 lbs | 45.4 kg/100.8 lbs | 27 kg/59.5 lbs | 33 kg/72.75 lbs | 39.5 kg/87.1 lbs |

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Note *4: For series/parallel specifications and availability, please contact Chroma office.

* All specifications are subject to change without notice.

## SPECIFICATIONS - 2 (1200V & 1800V Models)

| Model | 62120D-1200 | 62180D-1200 | 62180D-1800 |
|---|---|---|---|
| Source/Sink Ratings | | | |
| Source/Sink Voltage | 0 - 1200V | 0 - 1200V | 0 - 1800V |
| Source/Sink Current | ±40A / ±55A *4 | ±40A / ±55A *4 | ±40A / ±55A *4 |
| Source/Sink Power *1 | ±12000W / ±13000W *5 | ±18000W / ±19500W *5 | ±18000W / ±19500W *5 |
| Min. Load Voltage (@ I Load Max.) *2 | 90V | | |
| 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*3 | | | |
| Range | 240V /1200V | 240V /1200V | 360V / 1800V |
| Accuracy | 0.05% + 0.05%F.S. | 0.05% + 0.05%F.S. | 0.05% + 0.05%F.S. |
| Current Measurement*3 | | | |
| Range | 8A / 40A / 55A *4 | 8A / 40A / 55A *4 | 8A / 40A / 55A *4 |
| Accuracy | 0.1% + 0.1%F.S. | | |
| Output Noise & Ripple | | | |
| P-P (20MHz) | 840mV | 1260mV | 1260mV |
| rms (Voltage) | 170mV | 255mV | 255mV |
| rms (Current) | 30mA | 30mA | 30mA |
| Programming Response Time | | | |
| Rise Time (Full Load) | 20ms | | |
| Rise Time (No Load) | 10 ms | | |
| Fall Time (Full Load) | 20ms | | |
| Fall Time (No Load) | 10ms | | |
| Slew Rate Control | | | |
| Voltage slew rate range | 0.001V/ms - 120V/ms | 0.001V/ms - 180V/ms | 0.001V/ms - 180V/ms |
| Current slew rate range | 0.001A - 20A/ms | | |
| Minimum transition time (CV) | 0.5ms | | |
| Transient Response Time (CV) | Recovers within 500μs to ±0.75% of steady-state output for a 50% to 100% or 100% to 50% load change (1A/μs) | | |
| Operating Mode | | | |
| Source | CC, CV, CP, Ri | | |
| Load | CC, CR, CP | | |
| Source & Load | CC, CV, CP, CR, Ri | | |
| Efficiency (Typical) | Source > 0.91<br>Sink > 0.92 | Source > 0.91<br>Sink > 0.90 | Source > 0.92<br>Sink > 0.93 |
| Drift (30 minutes) | | | |
| Voltage | 0.04% of Vmax | 0.04% of Vmax | 0.04% of Vmax |
| Current | 0.06% of Imax | | |
| Drift (8 hours) | | | |
| Voltage | 0.02% of Vmax | 0.02% of Vmax | 0.02% of Vmax |
| Current | 0.04% of Imax | | |
| Temperature Coefficient | | | |
| Voltage | 0.04% of Vmax/˚C | 0.04% of Vmax/˚C | 0.04% of Vmax/˚C |
| Current | 0.06% of Imax/˚C | | |

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Note *1: When input at low voltage 200Vac - 220Vac, output power rate derates to 67%; when input at high voltage 380Vac - 480Vac, output power is a full 100%. (Example: 18kW derates to 12kW at 200Vac - 220Vac.)
Note *2: The specification of minimum load voltage is the same when operating under source & load mode.
Note *3: Source mode supports high and low scale measurement accuracy. For other modes, please refer to the manual for details.
Note *4: 62120D-1200 can operate continuously at full power, with a current and ambient temperature of 50A at 40˚C and 55A at 35˚C. 62180D-1200 & 62180D-1800 can operate continuously at full power, with a current and ambient temperature of 40A at 40˚C, 50A at 35˚C and 55A at 30˚C (< 5 minutes at 35˚C).
Note *5: 62120D-1200 can operate continuously up to 13kW/55A at an ambient temperature of 35˚C. 62180D-1200 & 62180D-1800 can operate continuously up to 19.5kW/50A at an ambient temperature of 35˚C.

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## SPECIFICATIONS - 2 (1200V & 1800V Models)

| Model | 62120D-1200 | 62180D-1200 | 62180D-1800 |
|---|---|---|---|
| Programming & Measurement Resolution | | | |
| Voltage (Front Panel ) | 100 mV | 100 mV | 100 mV |
| Current (Front Panel) | 10 mA | 10 mA | 10 mA |
| Voltage (Digital Interface) | 0.002% of Vmax | 0.002% of Vmax | 0.002% of Vmax |
| Current (Digital Interface) | 0.002% of Imax | | |
| Voltage (Analog Interface ) | 0.04% of Vmax | 0.04% of Vmax | 0.04% of Vmax |
| Current (Analog Interface ) | 0.04% of Imax | | |
| Programming Accuracy | | | |
| Voltage (Front Panel and Digital Interface) | 0.05% of Vmax | 0.05% of Vmax | 0.05% of Vmax |
| Current (Front Panel and Digital Interface) | 0.2% of Imax | | |
| Power (Front Panel and Digital Interface) | 0.3% of Pmax | | |
| Voltage (Analog Interface) | 0.2% of Vmax | | |
| Current (Analog Interface) | 0.2% of Imax | | |
| APG Measure Accuracy | | | |
| Voltage (Analog Interface) | 0.5% of Vmax | | |
| Current (Analog Interface) | 0.75% of Imax | | |
| Analog Interface (I/O) | | | |
| Voltage and Current Programming Inputs (I/P) | Voltage: 0 to 10 Vdc of F.S.<br>Current: Source I: 0 to 10 Vdc of F.S.<br>Load I: 0 to 10 Vdc of F.S. | | |
| Voltage and Current Monitor Output (O/P) | Voltage: 0 to 10 Vdc of F.S.<br>Current: -10 to 10 Vdc of F.S. | | |
| External ON/OFF (I/P) | TTL: Active Low or High (selective) | | |
| DC_ON Signal (O/P) | Level by user defined (Time delay=1ms 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 | | |
| Safety Interlock (I/P) | Time accuracy: <100ms | | |
| Remote Inhibit (I/P) | TTL: Active Low | | |
| OVP Adjustment Range | | | |
| Range | 0 - 110% programmable | | |
| Accuracy | ±1% of full scale output | | |
| Auto Sequencing (List Mode) | | | |
| Number of Program | 10 | | |
| Number of Sequence | 100 | | |
| Dwell time Range | 2ms - 15,000s | | |
| Trig. Source | Manual / Auto / External | | |
| Auto Sequencing (Step Mode) | | | |
| Start Voltage | 0 to full scale | | |
| End Voltage | 0 to full scale | | |
| Run Time | hh : mm : ss.sss ( 00 : 00 : 00.001 to 99 : 59 : 59.99 ) | | |
| Trig. Source | Auto | | |
| Series & Parallel Operation *6 | Parallel: 40 units | Parallel: 40 units | |
| Input Specification | | | |
| AC Input Voltage 3 phase,<br>3 Wire + Ground (w/o neutral) | 3Φ 200Vac - 220Vac±10% w/o neutral<br>3Φ 380Vac - 480Vac±10% w/o neutral<br>(67% output power@200 - 220Vac input, 100% output power@380 - 480Vac input) | | |
| AC Frequency Range | 47 - 63 Hz | | |
| Power Factor | >0.97 | | |
| General Specification | | | |
| Maximum Remote Sense Line Drop Compensation | 2% of full scale voltage per line (4% total) | | |
| Operating Temperature Range | 0˚C to 40˚C | | |
| Storage Temperature Range | -25˚C to 70˚C | | |
| Dimension Size (HxWxD) mm | 133 x 428 x 730 mm / 5.23 x 16.85 x 28.74 inch | | |
| Weight (kg) | 33 kg/72.75 lbs | 39.5 kg/87.1 lbs | 39.5 kg/87.1 lbs |

Note *6: For series/parallel specifications and availability, please contact Chroma office.

* All specifications are subject to change without notice.

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## SPECIFICATIONS - 3 (1300V & 2000V Models)

| Model | 62300D-1300HL | 62360D-2000HL | 62450D-2000HL |
|---|---|---|---|
| Source/Sink Ratings | | | |
| Source/Sink Voltage | 650V / 1300V | 650V / 2000V | 650V / 2000V |
| Source/Sink Current | ±120A / ±60A (650V/1300V) | ±180A / ±60A (650V / 2000V) | ±180A / ±60A (650V / 2000V) |
| Source/Sink Power | ±30000W | ±36000W | ±45000W |
| Min. Load Voltage (@ I Load Max.) *1 | 35V / 70V | 35V / 105V | 35V / 105V |
| Line Regulation | | | |
| Voltage | ±0.01% F.S. | | |
| Current | ±0.05% F.S. | | |
| Load Regulation | | | |
| Voltage | ±0.04% F.S. | | |
| Current | ±0.1% F.S. | | |
| Voltage Measurement | | | |
| Range | 650V / 1300V | 650V / 2000V | 650V / 2000V |
| Accuracy | 0.02% + 0.02%F.S. | 0.02% + 0.02%F.S. | 0.02% + 0.02%F.S. |
| Current Measurement | | | |
| Range | ±120A / ±60A | 180A / 60A | 180A / 60A |
| Accuracy | 0.04% + 0.04%F.S. | 0.04% + 0.04%F.S. | 0.04% + 0.04%F.S. |
| Output Noise & Ripple | | | |
| P-P (20MHz) | 850mV / 2300mV | 850mV / 3500mV | 850mV / 3500mV |
| rms (Voltage) | 95mV / 160mV | 80mV / 240mV | 80mV / 240mV |
| rms (Current) | 90mA / 75mA | 135mA / 75mA | 135mA / 75mA |
| Programming Response Time | | | |
| Rise Time (Full Load) | 20 ms | 20 ms | 20 ms |
| Rise Time (No Load) | 10 ms | 10 ms | 10 ms |
| Fall Time (Full Load) | 20 ms | 20 ms | 20 ms |
| Fall Time (No Load) | 10 ms | 10 ms | 10 ms |
| Slew Rate Control | | | |
| Voltage slew rate range | 0.0001V / ms - 65V/ms<br>0.0001V / ms - 130V/ms | 0.0001V / ms - 65V / ms<br>0.0001V / ms - 200V / ms | 0.0001V / ms - 65V / ms<br>0.0001V / ms - 200V / ms |
| Current slew rate range | 0.0001A - 60A/ms<br>0.0001A - 30A/ms | 0.0001A - 90A/ms<br>0.0001A - 30A/ms | 0.0001A - 90A/ms<br>0.0001A - 30A/ms |
| Minimum transition time (CV) | 0.5ms | 0.5ms | 0.5ms |
| Transient Response Time (CV) | Recovers within 500 μs to ±0.5%F.S. of output for a 50% to 100% or 100% to 50% load change (1A/μs) | | |
| Operating Mode | | | |
| Source | CC, CV, CP, Ri | | |
| Load | CC, CR, CP | | |
| Source & Load | CC, CV, CP, CR, Ri | | |
| Efficiency (Typical) | Source> 94.3%<br>Sink> 94% | Source> 93.6%<br>Sink> 93.6% | Source> 94.3%<br>Sink> 94% |
| Drift (30 minutes) | | | |
| Voltage | 0.04% of Vmax | 0.04% 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 | 0.02% of Vmax | 0.02% of Vmax |
| Current | 0.04% of Imax | 0.04% of Imax | 0.04% of Imax |
| Temperature Coefficient | | | |
| Voltage | 0.04% of Vmax/˚C | 0.04% of Vmax/˚C | 0.04% of Vmax/˚C |
| Current | 0.06% of Imax/˚C | 0.06% of Imax/˚C | 0.06% of Imax/˚C |

Note *1: The specification of minimum load voltage is the same when operating under source & load mode.

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• Continued on next page ➡

## SPECIFICATIONS - 3 (1300V & 2000V Models)

| Model | 62300D-1300HL | 62360D-2000HL | 62450D-2000HL |
|---|---|---|---|
| Programming & Measurement Resolution | | | |
| Voltage (Front Panel ) | 100 mV | 100 mV | 100 mV |
| Current (Front Panel) | 10 mA | 10 mA | 10 mA |
| Voltage (Digital Interface) | 0.002% of Vmax | 0.002% of Vmax | 0.002% of Vmax |
| Current (Digital Interface) | 0.004% of Vmax | 0.004% of Vmax | 0.004% of Vmax |
| Voltage (Analog Interface ) | 0.04% of Vmax | 0.04% of Vmax | 0.04% of Vmax |
| Current (Analog Interface ) | 0.04% of Vmax | 0.04% of Vmax | 0.04% of Vmax |
| Programming Accuracy | | | |
| Voltage (Front Panel and Digital Interface) | 0.05% of Vmax | 0.05% of Vmax | 0.05% of Vmax |
| Current (Front Panel and Digital Interface) | 0.2% of Imax | 0.2% of Imax | 0.2% of Imax |
| Power (Front Panel and Digital Interface) | 0.3% of Pmax | 0.3% of Pmax | 0.3% of Pmax |
| Voltage (Analog Interface) | 0.2% of Vmax | 0.2% of Vmax | 0.2% of Vmax |
| Current (Analog Interface) | 0.3% of Imax | 0.3% of Imax | 0.3% of Imax |
| APG Measure Accuracy | | | |
| Voltage (Analog Interface) | 0.5% of Vmax | 0.5% of Vmax | 0.5% of Vmax |
| Current (Analog Interface) | 0.75% of Imax | 0.75% of Imax | 0.75% of Imax |
| Analog Interface (I/O) | | | |
| Voltage and Current Programming Inputs (I/P) | Voltage: 0 to 10 Vdc of F.S.<br>Current: Source I: 0 to 10 Vdc of F.S.<br>Load I: 0 to 10 Vdc of F.S. | | |
| Voltage and Current Monitor Output (O/P) | Voltage: 0 to 10 Vdc of F.S.<br>Current: -10 to 10 Vdc of F.S. | | |
| External ON/OFF (I/P) | TTL: Active Low or High (selective) | | |
| DC_ON Signal (O/P) | Level by user defined<br>(Time delay=1ms 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 | | |
| Safety Interlock (I/P) | Time accuracy: <100ms | | |
| Remote Inhibit (I/P) | TTL: Active Low | | |
| OVP Adjustment Range | | | |
| Range | 0 - 110% programmable | | |
| Accuracy | ±1% of full scale output | | |
| Auto Sequencing (List Mode) | | | |
| Number of Program | 10 | | |
| Number of Sequence | 100 | | |
| Dwell time Range | 2ms - 15,000s | | |
| Trig. Source | Manual / Auto / External | | |
| Auto Sequencing (Step Mode) | | | |
| Start Voltage | 0 to full scale | | |
| End Voltage | 0 to full scale | | |
| Run Time | hh : mm : ss.sss ( 00 : 00 : 00.001 to 99 : 59 : 59.99 ) | | |
| Trig. Source | Auto | | |
| Parallel Operation *2 | Master / slave control for 40 units | | |
| Input Specification | | | |
| AC Input Voltage 3 phase,<br>3 Wire + Ground (w/o neutral) | 3Φ 380Vac - 480Vac±10% w/o neutral | | |
| AC Frequency Range | 47 - 63 Hz | | |
| Power Factor | >0.99 | | |
| General Specification | | | |
| Maximum Remote Sense Line Drop Compensation | 2% of full scale voltage per line (4% total) | | |
| Operating Temperature Range | 0˚C to 40˚C | | |
| Storage Temperature Range | -25˚C to 70˚C | | |
| Dimension Size (HxWxD) mm | 177 x 428 x 898.5 mm / 6.97 x 16.85 x 35.37 inch | | |
| Weight (kg) | 61 kg / 135lbs | 72 kg / 159 lbs | 72 kg / 159 lbs |

Note *2: For higher power >90kW to 1.8MW, please call for availability.

* All specifications are subject to change without notice.

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## SOFTPANEL

The 62000D series can be operated from the front panel controls or from available SoftPanel. This user friendly software includes all functions of the 62000D series and is easy to understand and operate. The 62000D can be controlled via GPIB, USB and Ethernet interfaces for remote control and automated testing applications.



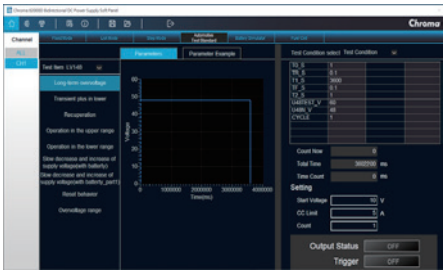
List Mode



Fixed Mode



Step Mode



Automotive Test Standard



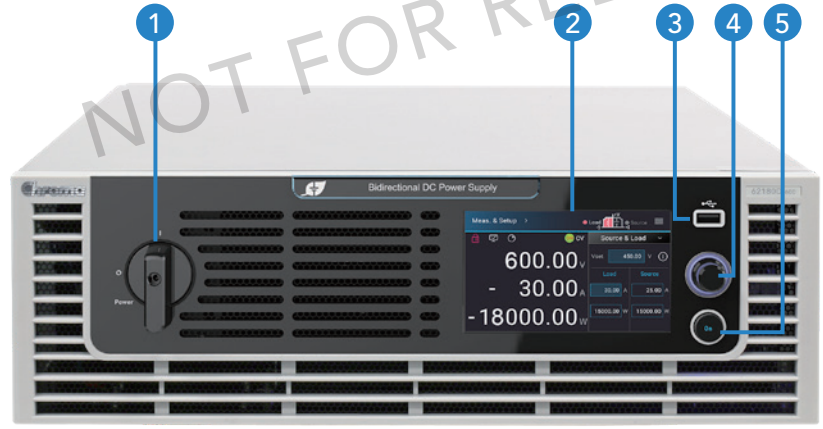
Battery Simulator

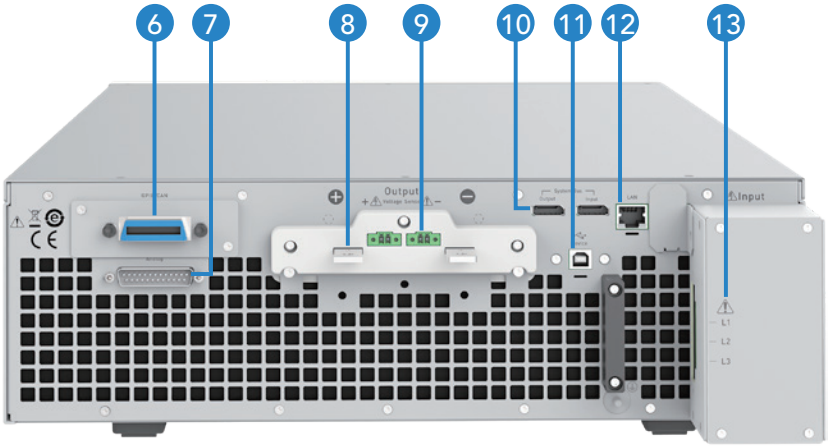


Fuel Cell

## PANEL DESCRIPTION

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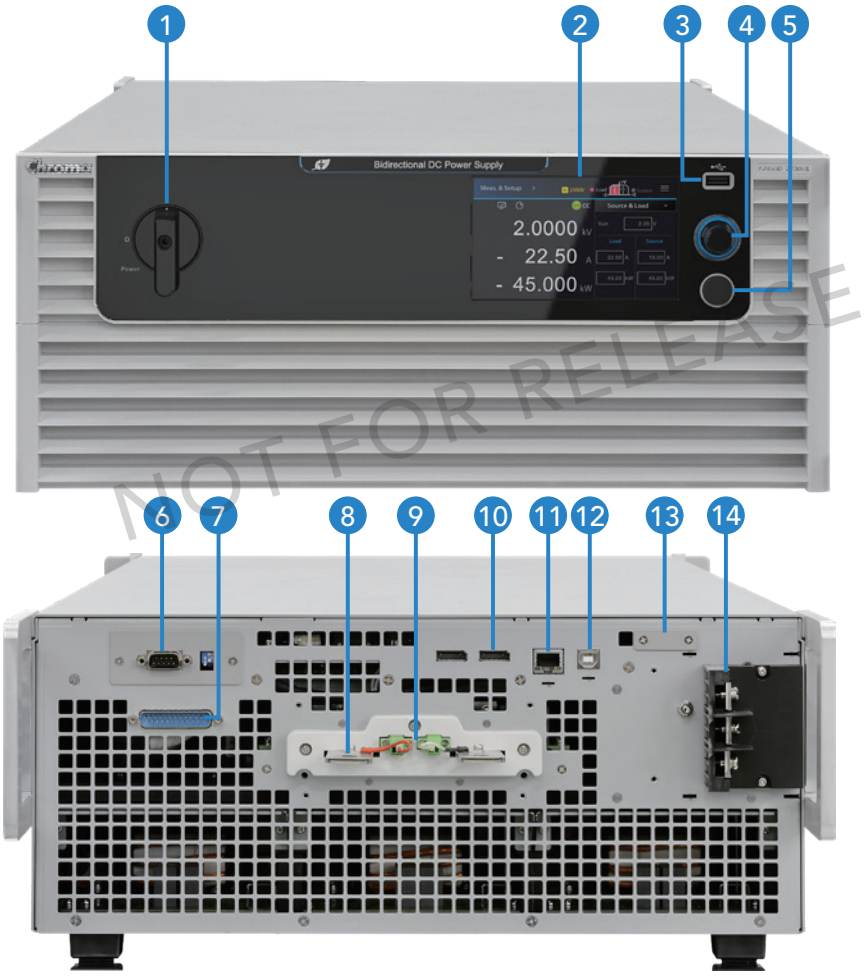



### 100V/600V/1200V/1800V models

1. POWER Switch
2. TFT Control Interface
   Displays: measurements, setup, control, and status
3. USB HOST (not yet supported)
   Programming: program fetching, data downloading, firmware updates, etc.
4. Pushable Rotary Switch
   Rotate to edit screen and set values; after configuration, push to confirm input
5. OUTPUT ON Key
   Press the ON key: light indicates Output ON, dark indicates Output OFF
6. GPIB & CAN Interfaces Shared Slot (choose one)
7. Analog Programming Interface
   For analog level to program and monitor output voltage & current
8. DC Output Terminal
9. Remote Sense Terminal
10. Current Sharing Terminal
    Connect the cable to slave unit
11. USB Interface (standard)
12. LAN Interface (standard)
13. AC Input Terminal

## PANEL DESCRIPTION




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### 1300HL/2000HL models

1. POWER Switch
2. TFT Control Interface
   Displays: measurements, setup, control, and status
3. USB HOST (not yet supported)
   Programming: program fetching, data downloading, firmware updates, etc.
4. Pushable Rotary Switch
   Rotate to edit screen and set values; after configuration, push to confirm input
5. OUTPUT ON Key
   Press the ON key: light indicates Output ON, dark indicates Output OFF
6. GPIB & CAN Interfaces Shared Slot (choose one)
7. Analog Programming Interface
   For analog level to program and monitor output voltage & current
8. DC Output Terminal
9. Remote Sense Terminal
10. Current Sharing Terminal
11. LAN Interface (standard)
12. USB Interface (standard)
13. Aurora Interface (option) (reserved)
14. AC Input Terminal

## ORDERING INFORMATION

62000D Series: Programmable Bidirectional DC Power Supply
62060D-100: Programmable Bidirectional DC Power Supply 100V/180A/6kW
62120D-100: Programmable Bidirectional DC Power Supply 100V/360A/12kW
62180D-100: Programmable Bidirectional DC Power Supply 100V/540A/18kW
62060D-600: Programmable Bidirectional DC Power Supply 600V/40A/6kW
62120D-600: Programmable Bidirectional DC Power Supply 600V/80A/12kW
62180D-600: Programmable Bidirectional DC Power Supply 600V/120A/18kW
62120D-1200: Programmable Bidirectional DC Power Supply 1200V/40A/12kW
62180D-1200: Programmable Bidirectional DC Power Supply 1200V/40A/18kW
62180D-1800: Programmable Bidirectional DC Power Supply 1800V/40A/18kW
62300D-1300HL: Programmable Bidirectional DC Power Supply 1300V/120A/30kW
62360D-2000HL: Programmable Bidirectional DC Power Supply 2000V/180A/36kW
62450D-2000HL: Programmable Bidirectional DC Power Supply 2000V/180A/45kW

* Models with HL indicate dual output range functionality

A620039 : GPIB Interface (Supports 62xxxD-100/600/1200/1800 models)
A620045 : CAN Interface (Supports 62xxxD-100/600/1200/1800 models)
A620046 : 62000D SoftPanel
B620003: Optional Solar Array Simulation Function
(Supports 62XXXD-600/1200/1800/1300HL/2000HL models)
A636011: GPIB Interface (Supports 62XXXD-2000HL models)
A636012: CAN FD Interface (Supports 62XXXD-2000HL models)
A620052: 62XXXD-100 dedicated 41U Paralleling Rack*
A620053: 62XXXD-600/1200/1800 dedicated 41U Paralleling Rack
A620054: 62XXXD-1300HL/2000HL dedicated 41U Paralleling Rack*

* Call for availability.

Get more product & global distributor information in the Chroma ATE APP

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