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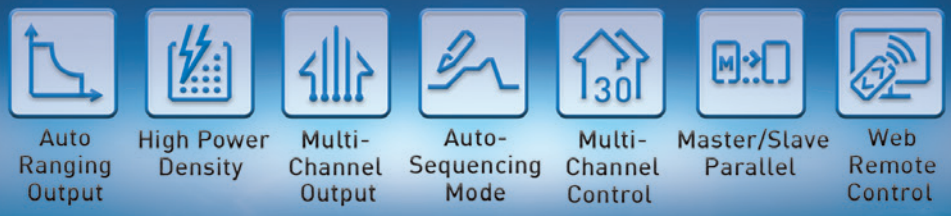


PROGRAMMABLE DC POWER SUPPLY MODEL 62000E SERIES

The Chroma 62000E Series of programmable DC power supplies offers single-channel models with power ratings of 1.7kW, 3.4kW, and 5kW, and three-channel models rated at 1.7kW, all housed in a 1U chassis featuring industry-leading power density. The 54 different models include both fixed-range and auto-range options, with current ratings from 3.4A to 150A and voltage from 40V to 1200V.

The 62000E series supports constant voltage (CV) and constant current (CC) modes, allowing users to switch output priority based on test requirements. These power supplies feature high output precision for both control and measurements, fast dynamic response, and low output noise, ideal for diverse testing applications in laboratories, production lines, and integration into automated test equipment (ATE).

This series is ideal for both single-channel and multi-channel testing applications, such as DC-DC power system ATE setups, automotive component systems, satellite power system reliability, long-term durability of active and passive components, integrated power supplies for industrial and medical systems, supply and aging of semiconductor power components, LED and laser diodes, and solar panel production and aging.

Compared to traditional power supplies, the 62000E series saves space, improves energy efficiency, and simplifies testing at a competitive price.

The 62000E series supports creation of custom output waveforms with up to 100 programmable sequences via List Mode, with dwell times adjustable between 10ms and 65,535 seconds. This enables users to meet a wide range of testing needs, including voltage drop testing of DC-DC converters and inverters, component lifecycle testing, and avionics testing.

This series supports 1-phase/3-phase 200-240Vac and 3-phase 380-400Vac input. With active PFC and 92% efficiency, it reduces electricity costs and minimizes the required power system capacity, making it compatible with electrical systems worldwide. Various control interfaces are available, including USB, LAN, CAN FD, GPIB, and analog APG, allowing for flexible integration into any test system.

MODEL 62000E SERIES

KEY FEATURES

- Voltage rating: 40V/60V/80V/100V/230V/300V/450V/600V/1200V, 54 models
  Current rating: 3.4A-150A, 54 models
- Single-output models:
  1.7kW, 3.4kW, 5kW
- Multi-output models:
  3x1.7kW channels in 1U
- Master/slave parallel up to 20kW
- Fixed or Auto-ranging output models
- Auto sequence programming
- CV/CC modes priority
- High-precision measurement
- High-speed transient response <1ms
- Low output ripple & noise
- Intuitive and user-friendly touch screen
- Standard USB, LAN interfaces
- Optional APG, CAN FD, GPIB, and master/slave parallel control interfaces
- AC input: 1-phase/3-phase 200-240Vac or 3-phase 380-400Vac

APPLICATIONS

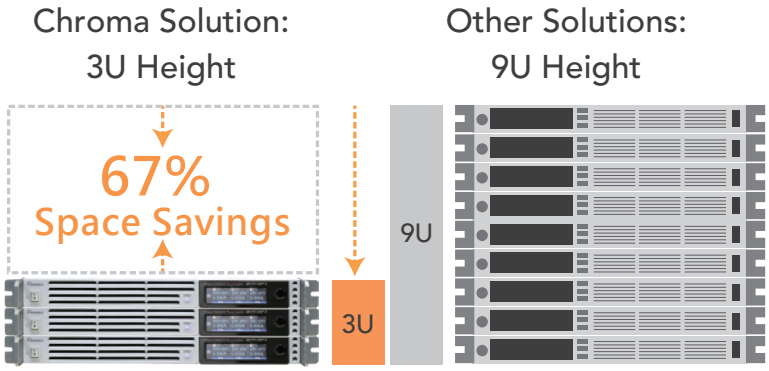
- Electric vehicle component testing
- Semiconductor testing and burn-in
- Medical equipment power supply
- Aerospace and aviation testing
- Test & measurement ATE and manufacturing
- Industrial and system integrated power supply
- Equipment manufacturing and system integration
- Suitable for multi-channel power supply applications such as simulation for aviation, aerospace and satellite systems, and burn-in & processing for active/passive components, DC-DC modules, batteries, accelerator magnets, evaporation heating sources, etc.
- Production and aging of solar modules

Chroma
Advancing Excellence

HIGH POWER DENSITY 1.7KW X 3CH IN 1U

Employing a high-power-density design, the 62000E series can deliver 1.7kW output through each of its 3 channels within a compact 1U chassis. Each channel is isolated, allowing for independent voltage and current control and measurement. This design reduces rack space requirements and simplifies wiring. For instance, take a system integrator's equipment specifications requiring 9 channels of DC power. Compared to other solutions demanding 9 single-channel power supplies stacked at a height of 9U, the 62000E series gets the job done with 3 units (using three-channel models) occupying only 3U of rack space.

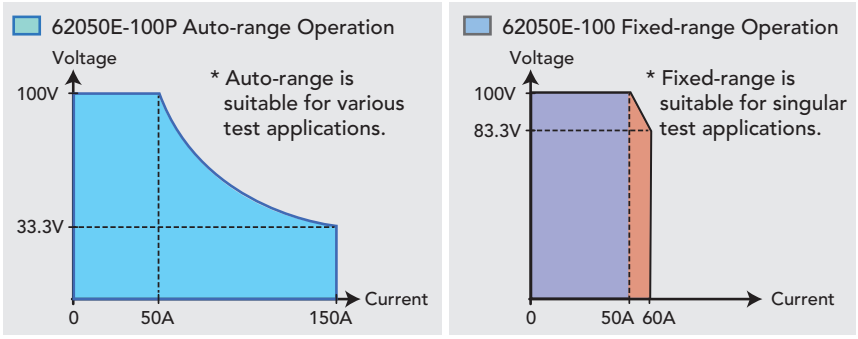
The three-channel models are offered across ten voltage classes—from 40V, 60V, 80V, 100V, 230V, 300V, 450V up to 600V—meeting a wide range of high- and low-voltage testing needs. Typical applications include consumer electronics, automotive electronics, batteries, and renewables.



AUTO-RANGE AND FIXED-RANGE OUTPUT

The 62000E series offers two types of power supplies: auto-range output and fixed-range output, allowing users to select based on application, specifications, and budget. For instance, the 62050E-100P is designed with an auto-range output, offering 5kW/100V/150A. It supports flexible operation across various combinations (as illustrated). At a low output voltage of 33.3V, it can provide a high current of 150A, while at a high voltage of 100V, it delivers a lower current of 50A. This flexibility allows these wide-range DC power supplies to cover both low-voltage/high-current and high-voltage/low-current requirements, making them especially suitable for test & measurement applications using automated test equipment (ATE). This eliminates the need for multiple DC power supplies, saving both cost and space.

Alternatively, the 62050E-100 model is an economical fixed-range power supply with an output of 5kW/100V/60A DC (as shown on the right). This fixed-range design is ideal for production equipment where DUTs with fixed specifications are tested, providing a cost-effective solution to equipment manufacturers in need of an integrated power supply.



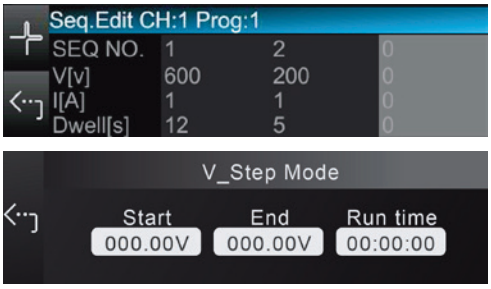
UP TO 20KW MASTER/SLAVE PARALLEL OPERATION

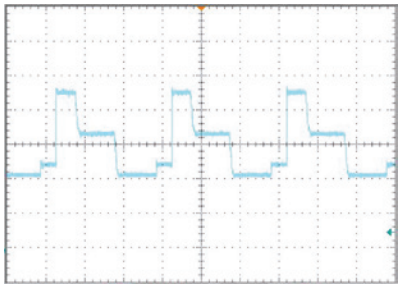
When selecting equipment, users must typically consider factors such as compact size, lightweight design, high utilization, flexible (dis) assembly, and downtime during maintenance impacting R&D and production. Designed with all these considerations in mind, the 62000E series is equipped with a master/slave control mode, allowing up to four units to be paralleled for a combined output of 20kW. This makes parallel operation quick, easy, and convenient for use in R&D labs, testing facilities, and production lines. In this mode, the master unit downloads the settings to the slave units. Programming is simple, and the user interface is the same as for single-unit operation. The parallel system employs a digital current-sharing design that ensures high stability and noise immunity.

* Only available for single-channel output models.
* Requires A620042 interface.

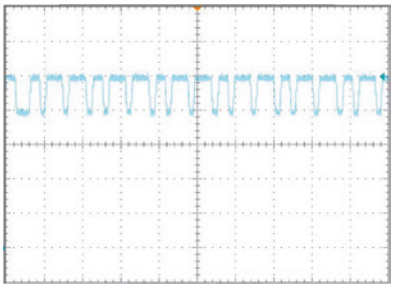
AUTO SEQUENCE PROGRAMMING

Chroma 62000E Series DC Power Supplies feature programmable sequences through the List and Step modes with adjustable time settings. With 100 programmable steps and a dwell time range of 10ms to 65,535s, the supplies provide precise voltage and current control, along with I/O signal output for automated testing applications. Applications include voltage drop tests for DC-DC converters and inverters, automated battery charging, lifecycle testing of components, and avionics testing.

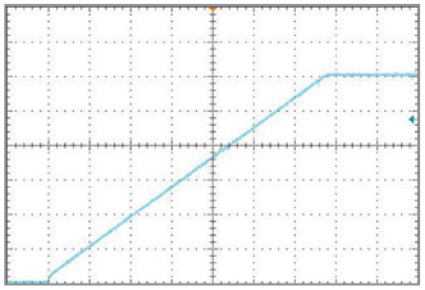




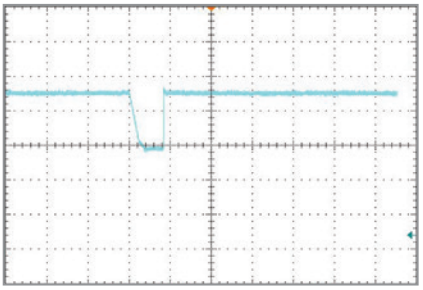
Life Cycle Test



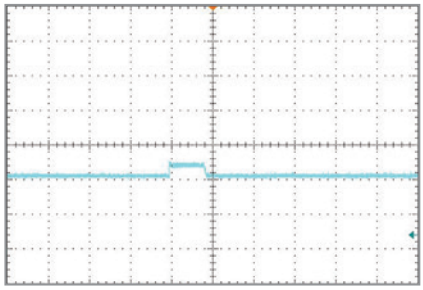
Input Disturbance Test



Soft Start Testing



D/D Converter Sag Testing

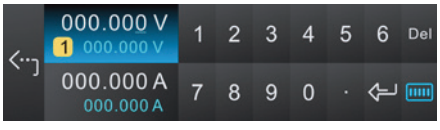


D/D Converter Surge Testing

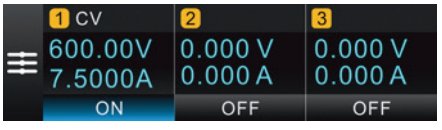
USER-FRIENDLY INTUITIVE CONTROL INTERFACE

The 62000E series is equipped with a state-of-the-art control interface, featuring an intuitive touchscreen and a user-friendly design. Users can easily operate the instrument with familiar smartphone-like gestures. All voltage/current settings, measurements, and program sequence control can be accomplished through the touchscreen icons, providing a smart and convenient user experience.

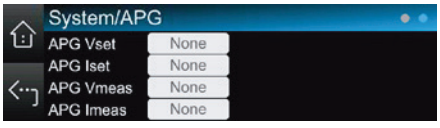
Rotary Knob Control Function



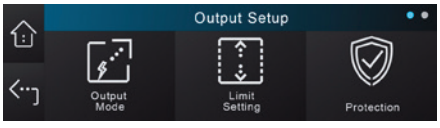
Digital Keyboard



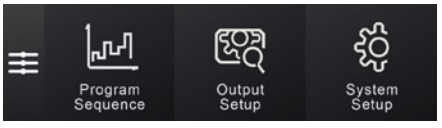
Measurement Display



Analog Control Function



Function Page

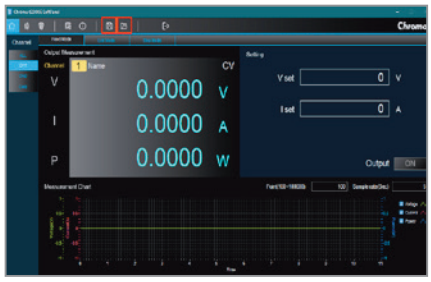


Advanced Function

SOFTPANEL™ SOFTWARE INTERFACE

In addition to controlling the 62000E series via the front panel, users can also utilize a graphical user interface (GUI) for operation. Chroma's user-friendly SoftPanel GUI includes multi-channel control for up to 30 channels, automatic program control, data logging, and reporting functions, making it easy for users to learn and operate. The 62000E series supports USB, LAN, and GPIB interfaces, providing users with flexible options for computer-based control and communication.

Main Page

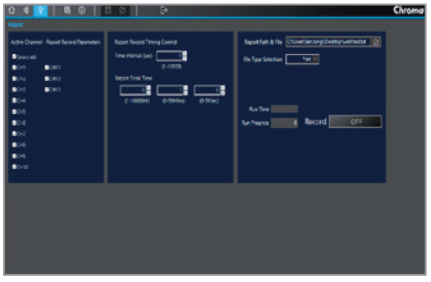


Fixed Mode

List Mode

Step Mode

Multi-channel Control



Report

REMOTE WEB CONTROL INTERFACE

The 62000E Series comes with a standard LAN interface that complies with the Ethernet/LXI standard and features a remote web control interface. Users can easily monitor the instrument using smartphones, tablets, or computers through a browser without the need for additional software installation. It supports guest/administrator accounts for user function and permission management and allows simultaneous monitoring of multiple devices. This is highly convenient for long-duration life cycle testing, enabling real-time monitoring of DC power supply conditions anytime, anywhere. (Patent No.: CN111796982A)

* Foldback Function: Allows users to set the output state (continue or off) when the output mode is switched (CV to CC or CC to CV), and to set a delay time to protect the DUT.
* Alarm Function: When an abnormality occurs, the control panel will issue a warning message, and the remote control interface will sound an audible alarm.
* SCPI Command Programming: Users can perform program control (looping, pausing, delay, etc.) and save/load control programs to a computer.
* Security: Initially, the Web software provides monitoring functions only. For security purposes, users must enter a password to enable control privileges.
* QR Code: The Web control interface can be accessed via QR code login for quick connection.
* Requires a wireless LAN router to connect smartphones and tablets.

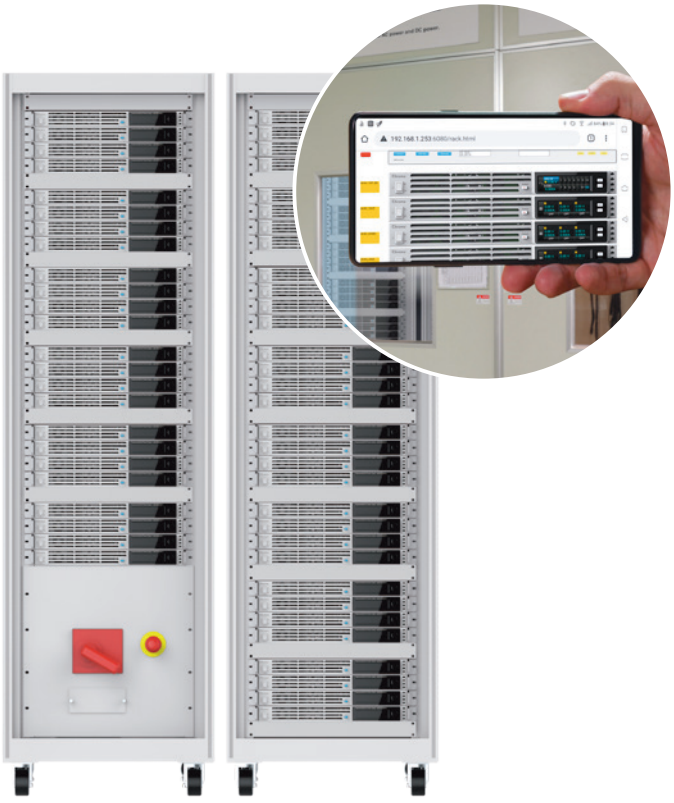
BUILT-IN VNC SERVER FOR REMOTE CONTROL

The 62000E series DC power supply is equipped with a VNC server. Users can readily operate and monitor remote instruments through mobile devices such as smartphones and tablets via VNC Viewer, which also offers password-protected management of user functions and permissions.

* VNC Viewer is A third party application.
* Requires a wireless LAN router to connect smartphones and tablets.

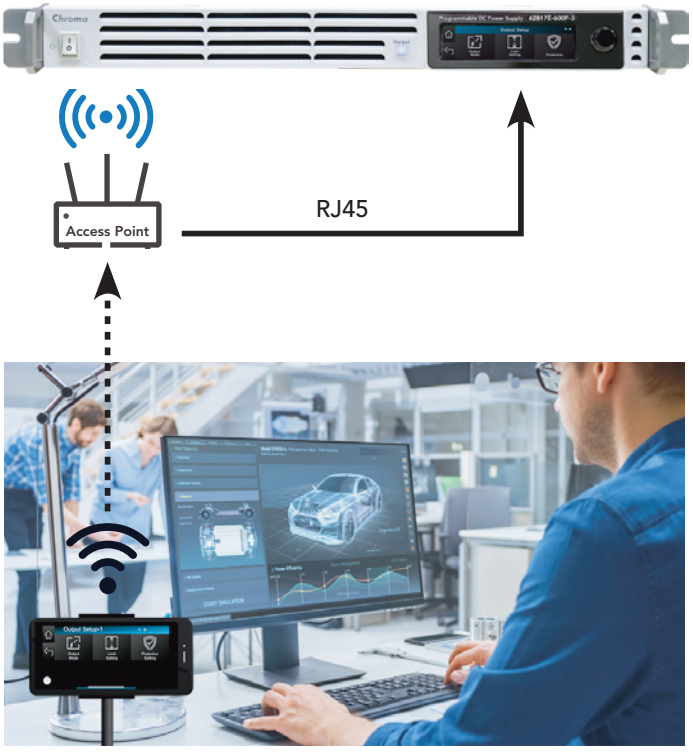
[SCENARIO 1]

When the 62000E Series DC power supply is integrated into an ATE system, users can perform sequence control through the GPIB interface. This eliminates the need to visit the laboratory for checking the readings and status on the device panel. The VNC function allows remote reading of the power supply output and operating status easily through the LAN interface.



[SCENARIO 2]

When the power supply is used for long-term burn-in and aging tests on the DUT, the engineer can quickly connect to the power supply at any time. For example, view the test status of the device in the laboratory remotely from the office and greatly save on inspection time and effort.

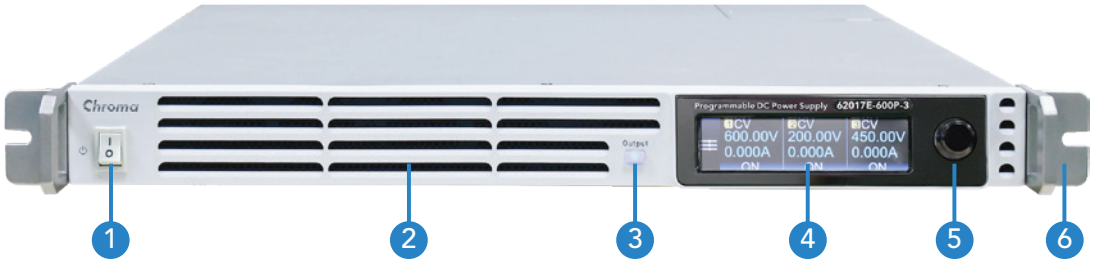


[SCENARIO 3]

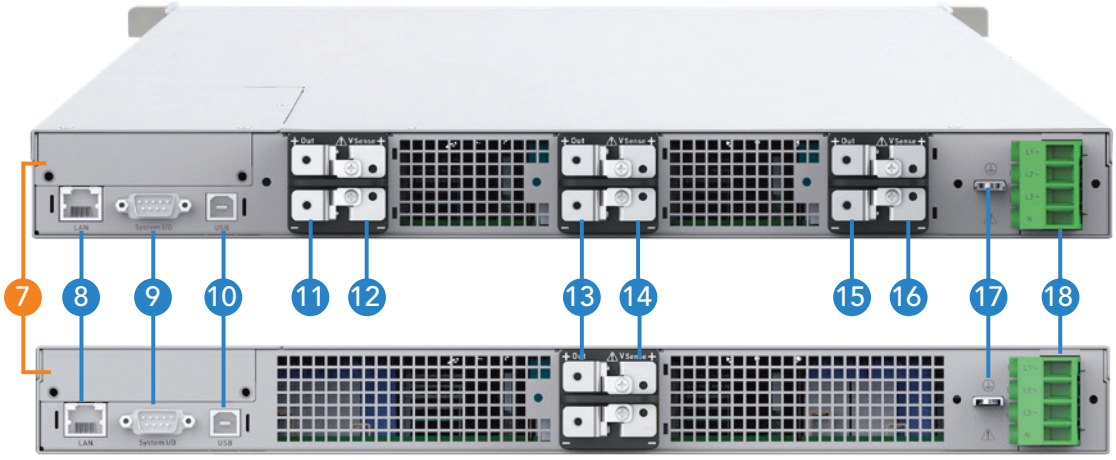
When the power supply is placed on a test bench, desk, or rack (depending on the space available), having to manually operate the power supply and on-line adjust or monitor the output would be inconvenient for the engineer. Through the VNC function, a mobile device can act as a remote control keypad which greatly benefits such tasks. To keep safe, the remote control authority is protected with a password.

PANEL DESCRIPTION

Front Panel



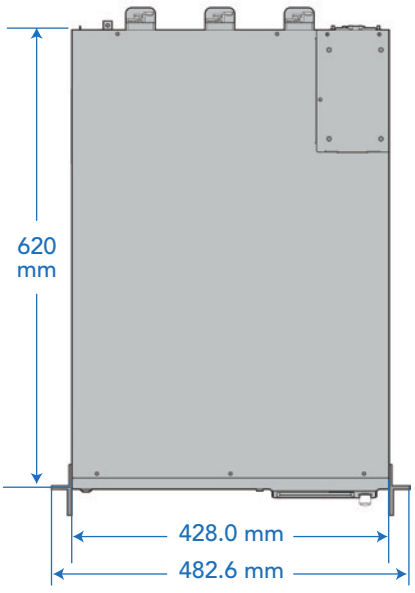
Rear Panel: Three-Channel Model

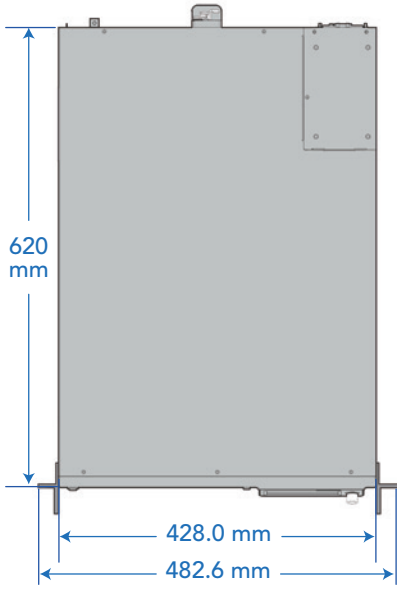


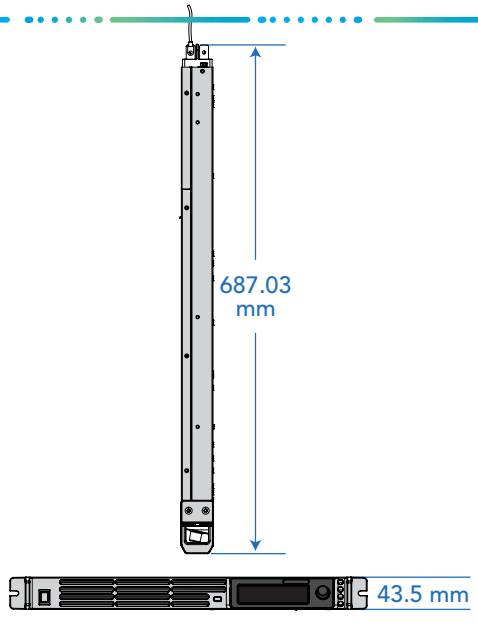
Rear Panel: Single-Channel Model 1.7kW/3.4kW/5kW

1. AC Power Switch
2. Air Cooling Vents
3. Output ON/OFF Key
4. TFT Color Touch Panel (3 channels)
5. Output Voltage & Current Rotary Switch
6. Rack Mounting Kit (standard)
7. GPIB/APG/CAN FD/Master-Slave Parallel Interface (Four options, choose one)
8. LAN Standard Interface
9. System I/O Interface
10. USB Standard Interface
11. DC Output Terminal (channel 3)
12. Remote Sense Terminal (channel 3)
13. DC Output Terminal (channel 2)
14. Remote Sense Terminal (channel 2)
15. DC Output Terminal (channel 1)
16. Remote Sense Terminal (channel 1)
17. GND Terminal
18. AC Input Terminal

DIMENSIONS







SPECIFICATIONS

Auto-range Output Models

Model	62017E-100P-3	62017E-100P	62034E-100P	62034E-200P *	62050E-100P	62050E-300P *
Number of Channels	3	1	1	1	1	1
Output Ratings						
Output Voltage (V)	0-100	0-100	0-100	0-200	0-100	0-300
Output Current (A)	0-50	0-50	0-100	0-50	0-150	0-50
Output Power (W)	1,700	1,700	3,400	3,400	5,000	5,000
Efficiency (Typical)	91%	91%	91%	91%	91%	91%
Output Noise & Ripple						
Voltage P-P (mV)	90	90	90	180	90	270
Voltage rms (mV)	12	12	12	24	12	36
Current rms (mA)	60	60	120	60	180	60
Slew Rate						
Voltage	0.001V-8V/ms	0.001V-8V/ms	0.001V-8V/ms	0.001V-16V/ms	0.001V-8V/ms	0.001V-24V/ms
Current	0.001A-1A/ms	0.001A-1A/ms	0.001A-2A/ms	0.001A-1A/ms	0.001A-3A/ms	0.001A-1A/ms

Model	62017E-600P-3	62017E-600P	62034E-600P	62034E-1200P	62050E-600P	62050E-1200P
Number of Channels	3	1	1	1	1	1
Output Ratings						
Output Voltage (V)	0-600	0-600	0-600	0-1200	0-600	0-1,200
Output Current (A)	0-7.5	0-7.5	0-15	0-7.5	0-22.5	0-7.5
Output Power (W)	1,700	1,700	3,400	3,400	5,000	5,000
Efficiency (Typical)	92%	91%	91%	92%	91%	92%
Output Noise & Ripple						
Voltage P-P (mV)	375	375	375	750	375	1125
Voltage rms (mV)	75	75	75	150	75	225
Current rms (mA)	35	35	70	35	105	35
Slew Rate						
Voltage	0.001V-7V/ms	0.001V-7V/ms	0.001V-7V/ms	0.001V-14V/ms	0.001V-7V/ms	0.001V-21V/ms
Current	0.001A-0.1A/ms	0.001A-0.1A/ms	0.001A-0.2A/ms	0.001A-0.1A/ms	0.001A-0.3A/ms	0.001A-0.1A/ms

Fixed-range Output Models (Three-Channels)

Model	62017E-40-3	62017E-60-3	62017E-80-3	62017E-100-3
Number of Channels	3	3	3	3
Output Ratings				
Output Voltage (V)	0-40	0-60	0-80	0-100
Output Current (A)	0-50	0-34	0-25.5	0-20.4
Output Power (W)	1,700	1,700	1,700	1,700
Efficiency (Typical)	86%	89%	90%	91%
Output Noise & Ripple				
Voltage P-P (mV)	68	68	68	90
Voltage rms (mV)	9	9	9	12
Current rms (mA)	60	50	30	20
Slew Rate				
Voltage	0.001V-8V/ms	0.001V-8V/ms	0.001V-8V/ms	0.001V-8V/ms
Current	0.001A-1A/ms	0.001A-1A/ms	0.001A-1A/ms	0.001A-1A/ms

Model	62017E-230-3	62017E-300-3	62017E-450-3	62017E-600-3
Number of Channels	3	3	3	3
Output Ratings				
Output Voltage (V)	0-230	0-300	0-450	0-600
Output Current (A)	0-7.5	0-6.8	0-4.5	0-3.4
Output Power (W)	1,700	1,700	1,700	1,700
Efficiency (Typical)	89%	91%	91%	92%
Output Noise & Ripple				
Voltage P-P (mV)	215	280	320	375
Voltage rms (mV)	30	37.5	50	75
Current rms (mA)	35	25	18	12
Slew Rate				
Voltage	0.001V-7V/ms	0.001V-7V/ms	0.001V-7V/ms	0.001V-7V/ms
Current	0.001A-0.1A/ms	0.001A-0.1A/ms	0.001A-0.1A/ms	0.001A-0.1A/ms

• Continued on next page ➟

Fixed-range Output Models (Single Channel)

Model	62017E-40	62017E-60	62017E-80	62017E-100
Number of Channels	1	1	1	1
Output Ratings				
Output Voltage (V)	0-40	0-60	0-80	0-100
Output Current (A)	0-50	0-34	0-25.5	0-20.4
Output Power (W)	1,700	1,700	1,700	1,700
Efficiency (Typical)	86%	89%	90%	91%
Output Noise & Ripple				
Voltage P-P (mV)	68	68	68	90
Voltage rms (mV)	9	9	9	12
Current rms (mA)	60	50	30	20
Slew Rate				
Voltage	0.001V-8V/ms	0.001V-8V/ms	0.001V-8V/ms	0.001V-8V/ms
Current	0.001A-1A/ms	0.001A-1A/ms	0.001A-1A/ms	0.001A-1A/ms

Model	62017E-230	62017E-300	62017E-450	62017E-600
Number of Channels	1	1	1	1
Output Ratings				
Output Voltage (V)	0-230	0-300	0-450	0-600
Output Current (A)	0-7.5	0-6.8	0-4.5	0-3.4
Output Power (W)	1,700	1,700	1,700	1,700
Efficiency (Typical)	89%	90%	90%	91%
Output Noise & Ripple				
Voltage P-P (mV)	215	280	320	375
Voltage rms (mV)	30	37.5	50	75
Current rms (mA)	35	25	18	12
Slew Rate				
Voltage	0.001V-7V/ms	0.001V-7V/ms	0.001V-7V/ms	0.001V-7V/ms
Current	0.001A-0.1A/ms	0.001A-0.1A/ms	0.001A-0.1A/ms	0.001A-0.1A/ms

Model	62034E-40	62034E-60	62034E-80
Number of Channels	1	1	1
Output Ratings			
Output Voltage (V)	0-40	0-60	0-80
Output Current (A)	0-100	0-68	0-51
Output Power (W)	3,400	3,400	3,400
Efficiency (Typical)	86%	89%	90%
Output Noise & Ripple			
Voltage P-P (mV)	68mV	68mV	68mV
Voltage rms (mV)	9mV	9mV	9mV
Current rms (mA)	120mA	100mA	60mA
Slew Rate			
Voltage	0.001V-8V/ms	0.001V-8V/ms	0.001V-8V/ms
Current	0.001A-2A/ms	0.001A-2A/ms	0.001A-2A/ms

Model	62034E-100	62034E-150 *	62034E-200 *
Number of Channels	1	1	1
Output Ratings			
Output Voltage (V)	0-100	0-150	0-200
Output Current (A)	0-40.8	0-27.2	0-20.4
Output Power (W)	3,400	3,400	3,400
Efficiency (Typical)	91%	91%	92%
Output Noise & Ripple			
Voltage P-P (mV)	90mV	180mV	180mV
Voltage rms (mV)	12mV	24mV	24mV
Current rms (mA)	40mA	60mA	60mA
Slew Rate			
Voltage	0.001V-8V/ms	0.001V-16V/ms	0.001V-16V/ms
Current	0.001A-2A/ms	0.001A-1A/ms	0.001A-1A/ms

Fixed-range Output Models (Single Channel)

Model	62034E-230	62034E-300	62034E-450	62034E-600
Number of Channels	1	1	1	1
Output Ratings				
Output Voltage (V)	0-230	0-300	0-450	0-600
Output Current (A)	0-15	0-13.6	0-9	0-6.8
Output Power (W)	3,400	3,400	3,400	3,400
Efficiency (Typical)	89%	90%	90%	91%
Output Noise & Ripple				
Voltage P-P (mV)	215	280	320	375
Voltage rms (mV)	30	37.5	50	75
Current rms (mA)	35	25	36	24
Slew Rate				
Voltage	0.001V-7V/ms	0.001V-7V/ms	0.001V-7V/ms	0.001V-7V/ms
Current	0.001A-0.2A/ms	0.001A-0.2A/ms	0.001A-0.2A/ms	0.001A-0.2A/ms

Model	62034E-800	62034E-1000	62034E-1200
Number of Channels	1	1	1
Output Ratings			
Output Voltage (V)	0-800	0-1,000	0-1,200
Output Current (A)	0-5.1	0-4.1	0-3.4
Output Power (W)	3,400	3,400	3,400
Efficiency (Typical)	91%	91%	92%
Output Noise & Ripple			
Voltage P-P (mV)	750	750	750
Voltage rms (mV)	150	150	150
Current rms (mA)	35	35	35
Slew Rate			
Voltage	0.001V-14V/ms	0.001V-14V/ms	0.001V-14V/ms
Current	0.001A-0.1A/ms	0.001A-0.1A/ms	0.001A-0.1A/ms

Model	62050E-40	62050E-60	62050E-80
Number of Channels	1	1	1
Output Ratings			
Output Voltage (V)	0-40	0-60	0-80
Output Current (A)	0-150	0-100	0-75
Output Power (W)	5,000	5,000	5,000
Efficiency (Typical)	87%	88%	89%
Output Noise & Ripple			
Voltage P-P (mV)	68	68	68
Voltage rms (mV)	9	9	9
Current rms (mA)	180	120	90
Slew Rate			
Voltage	0.001V-8V/ms	0.001V-8V/ms	0.001V-8V/ms
Current	0.001A-3A/ms	0.001A-3A/ms	0.001A-3A/ms

Model	62050E-100	62050E-150 *	62050E-200 *
Number of Channels	1	1	1
Output Ratings			
Output Voltage (V)	0-100	0-150	0-200
Output Current (A)	0-60	0-50	0-30
Output Power (W)	5,000	5,000	5,000
Efficiency (Typical)	91%	91%	92%
Output Noise & Ripple			
Voltage P-P (mV)	90	204	204
Voltage rms (mV)	12	27	27
Current rms (mA)	60	40	30
Slew Rate			
Voltage	0.001V-8V/ms	0.001V-24V/ms	0.001V-24V/ms
Current	0.001A-3A/ms	0.001A-1A/ms	0.001A-1A/ms

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Fixed-range Output Models (Single Channel)

Model	62050E-230	62050E-300	62050E-450	62050E-600
Number of Channels	1	1	1	1
Output Ratings				
Output Voltage (V)	0-230	0-300	0-450	0-600
Output Current (A)	0-22.5	0-20	0-13.3	0-10
Output Power (W)	5,000	5,000	5,000	5,000
Efficiency (Typical)	89%	90%	90%	91%
Output Noise & Ripple				
Voltage P-P (mV)	215	280	320	375
Voltage rms (mV)	30	37.5	50	75
Current rms (mA)	105	75	54	36
Slew Rate				
Voltage	0.001V-7V/ms	0.001V-7V/ms	0.001V-7V/ms	0.001V-7V/ms
Current	0.001A-0.3A/ms	0.001A-0.3A/ms	0.001A-0.3A/ms	0.001A-0.3A/ms

Model	62050E-800	62050E-1000	62050E-1200
Number of Channels	1	1	1
Output Ratings			
Output Voltage (V)	0-800	0-1,000	0-1,200
Output Current (A)	0-7.5	0-6	0-5
Output Power (W)	5,000	5,000	5,000
Efficiency (Typical)	90%	91%	92%
Output Noise & Ripple			
Voltage P-P (mV)	1,125	1,125	1,125
Voltage rms (mV)	225	225	225
Current rms (mA)	35	35	35
Slew Rate			
Voltage	0.001V-21V/ms	0.001V-21V/ms	0.001V-21V/ms
Current	0.001A-0.1A/ms	0.001A-0.1A/ms	0.001A-0.1A/ms

* Please call for availability.

ELECTRICAL SPECIFICATIONS

Model	620xxE-40/60/80/100/100P/150/200/200P/300P (1CH/3CH models)	
Output Specifications*		
	Constant Voltage Mode	Constant Current Mode
Line Regulation	0.01% + 6mV	0.01% + 15mA
Load Regulation	0.01% + 10mV	0.01% + 20mA
Transient Response Time (CV Mode)	Rise time (No/Full Load) < 12.5ms & Fall time (No Load) < 0.5s	

Model	620xxE-230/300/450/600/600P/800/1000/1200/1200P (1CH/3CH models)	
Output Specifications*		
	Constant Voltage Mode	Constant Current Mode
Line Regulation	0.01% + 30mV	0.01% + 7.5mA
Load Regulation	0.01% + 60mV	0.01% + 7.5mA
Transient Response Time (CV Mode)	Rise time (No/Full Load) < 100ms & Fall time (No Load) < 3s	

Model	620xxE Series	
Output Specifications		
	Constant Voltage Mode	Constant Current Mode
Output Drift (30 mins.)	0.05% of Vmax	0.1% of Imax
Output Drift (8 hrs)	0.05% of Vmax	0.05% of Imax
Temperature Coefficient (/˚C)	0.04% of Vmax/˚C	0.04% of Imax/˚C
Setting Accuracy	0.05% + 0.05%FS	0.1% + 0.1%FS
Measurement Accuracy	0.05% + 0.05%FS	0.1% + 0.1%FS
Transient Response Time (CV mode)	±0.75% steady-state output voltage <1ms (load condition: 50%-100%, 1A/μs)	
Overvoltage Protection Range	Configurable range 0-110%	
Overvoltage Protection Accuracy	±1% rated power output	

Input Specifications				
AC Input Voltage Operating Range *1	1Ø 200-240Vac±10% V_{LN} / 3Ø 200-240Vac±10% V_{LL} (3 phase 4 wire Delta connection) / 3Ø 380-400Vac±10% V_{LL} (3 phase 5 wire, Y connection)			
AC Frequency Range	47-63Hz			
Power Factor	0.98 (Typical)			
Max. AC Current (each phase)	1Ø3W 200-240Vac	1.7kW model: 10A	3.4kW model: 20A	5kW/1.7kWx3CH model: 29A
	3Ø4W 200-240Vac	--	3.4kW model L1, L3: 10A ; L2: 17A	5kW/1.7kWx3CH model: 17A
	3Ø5W 380-400Vac	--	3.4kWmodel L1, L2, N: 10A ; L3: 0A	5kW/1.7kWx3CH model: 10A
General Specifications				
Remote Interface	Standard Ethernet, USB interfaces Optional GPIB, CAN FD/RS232, APG and master/slave parallel & series interfaces			
Program Sequences Function	Programs: 10 ; Sequences: 100 ; Dwell time: 10ms-65,535s			
Remote Sense Compensation/line	5V (Output voltage: 40V-600V) ; 10V (Output voltage: 800V-1,200V)			
Operating Temperature Range	0-40℃, output power is a full 100% (41-50℃, output power rate derates to 85%)			
Dimension (H x W x D)	43.5 x 428 x 620 mm / 1.71 x 16.85 x 24.41 inch			
Weight	<8.5 kg / 18.74 lbs (1.7kW models) ≦12 kg / 26.46 lbs (3.4kW models) ≦14.5 kg / 31.97 lbs (5kW/1.7kWx3CH)			

Analog Programming Interface		
	Constant Voltage Mode	Constant Current Mode
Analog Programming Input	0-5V or 0-10V	0-5V or 0-10V
Analog Programming Accuracy	0.2% of Vmax	0.3% of Imax
Analog Monitoring Output	0-5V or 0-10V	0-5V or 0-10V
Analog Monitoring Accuracy	0.5% of Vmax	0.75% of Imax
Remote Inhibit (I/P)	0-0.6V output OFF) 2-15V (output ON)	
Power OK Signal (O/P)	TTL: Active High	
CV/CC Indictor (O/P)	CV: TTL high, CC: TTL low Max. voltage 30V, Sink current 10mA	
External ON/OFF (I/P)	0-0.6V (output OFF) 2-15V (output ON)	
Local/remote Analog Control (I/P)	By electrical signal TTL or open/short: 0-0.6V or short: Remote, 4-5V or open: Local	
Local/remote Analog Control Indictor (O/P)	Open collector, Local: open Remote: ON, Max. voltage: 30V, Max. sink current: 5mA	
Auxiliary Outputs (O/P)	15V±5% 0.2A Max. load Ripple & noise: 50mVp-p	

*1 When input voltage at <200Vac, output power derates to 85%.

Master/Slave Series and Parallel Function		
	Series Function (Max. units)	Parallel Function (Max. units)
62017E-40/60/80/100/100P/230/300/450/600/600P-3 (3CH)	None	None
62017E/34E/50E-40/60/80/100/100P/230/300/450/600/600P (1CH)	Yes (2 units) *	Yes (4 units)*
62017E/34E/50E-150/200/200P/300P/800/1000/1200/1200P (1CH)	None	Yes (4 units)*

* Series and parallel functions work only under the same model.

* Each single unit must be equipped with a master-slave control interface card A620042.

* 3-channel models do not support series and parallel use between channels.

* All specifications are subject to change without notice.

ORDERING INFORMATION

Programmable DC Power Supply 62000E Series Fixed-range Output Models				
Model	Output (W)	Output (V)	Output (A)	Output Channels
62017E-40-3	1,700	40	50	3
62017E-60-3		60	34	
62017E-80-3		80	25.5	
62017E-100-3		100	20.4	
62017E-230-3		230	7.5	
62017E-300-3		300	6.8	
62017E-450-3		450	4.5	
62017E-600-3		600	3.4	
62017E-40		40	50	1
62017E-60		60	34	
62017E-80		80	25.5	
62017E-100		100	20.4	
62017E-230		230	7.5	
62017E-300		300	6.8	
62017E-450		450	4.5	
62017E-600		600	3.4	
62034E-40 *	3,400	40	100	
62034E-60 *		60	68	
62034E-80 *		80	51	
62034E-100 *		100	40.8	
62034E-150 *		150	27.2	
62034E-200 *		200	20.4	
62034E-230		230	15	
62034E-300		300	13.6	
62034E-450		450	9	
62034E-600		600	6.8	
62034E-800		800	5.1	
62034E-1000		1,000	4.1	
62034E-1200		1,200	3.4	
62050E-40 *	5,000	40	150	
62050E-60 *		60	100	
62050E-80 *		80	75	
62050E-100 *		100	60	
62050E-150 *		150	40	
62050E-200 *		200	30	
62050E-230		230	22.5	
62050E-300		300	20	
62050E-450		450	13.3	
62050E-600		600	10	
62050E-800		800	7.5	
62050E-1000		1,000	6	
62050E-1200		1,200	5	

Programmable DC Power Supply 62000E Series Auto-range Output Models				
Model	Output (W)	Output (V)	Output (A)	Output Channels
62017E-100P-3	1,700	100	50	3
62017E-600P-3		600	7.5	
62017E-100P		100	50	1
62017E-600P		600	7.5	
62034E-100P *	3,400	100	100	
62034E-200P *		200	50	
62034E-600P		600	15	
62034E-1200P		1,200	7.5	
62050E-100P *	5,000	100	150	
62050E-300P *		300	50	
62050E-600P		600	22.5	
62050E-1200P		1,200	7.5	

* Please specify the AC input voltage range for 3.4kW/5kW/1.7kWx3CH at time of order (factory installation).
* Call for availability.

Options	
A620040	GPIB Interface
A620041	Analog Programming interface for single channel
A620042	Master/Slave control interface for single channel
A620043	Analog Programming interface for 3 channels
A620044	CAN FD/RS232 Interface
A620051	62000E Softpanel

* Choose one of the below 4 options to install in the power supply.

Optional Interfaces:

A620040

A620041/A620043

A620042

A620044

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