

# 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 15KW 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 14 different models ranging from 5KW to 15KW, with current range up to 375A and voltage range up to 1000V. The 62000H can easily parallel up to ten units capable of 150KW with current sharing for bulk power applications, for example, battery bank simulation of 450V/150A/67.5KW for electric vehicle and military use.

There are 100 user programmable input status on the front panel for automated test

application and life cycle ON/OFF test. In addition, the 62000H has a 16 bit digital control with bright vacuum fluorescent display readout.

The 62000H series DC power supplies are very easy to operate either from the front panel keypad or from the remote controller via USB / RS232 / RS485 / APG (Standard) and GPIB & Ethernet (optional). Its compact size with 3U only can be stacked on a bench in a standard rack without any 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.

# Programmable DC Power Supply

## **MODEL 62000H SERIES**

#### **Key Features:**

- Power range: 5KW / 10KW / 15KW
- Voltage range: 0 ~ 1000V
- Current range: 0 ~ 375A
- High power density (15KW in 3U)
- Easy master / slave parallel & series operation up to 150KW
- Precision V&I Measurements
- High-speed programming
- Voltage & Current slew rate control
- Digital encoder knobs, keypad and function keys
- Current sharing operation
- Voltage ramp function (time range: 10 ms ~ 99 hours)
- Auto sequencing programming:10 programs / 100 sequences
- OVP, current limit, thermal protection
- Standard analog programming interface
- Standard USB / RS232 / RS485 interface
- Optional GPIB / Ethernet interface
- 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 15KW IN 3U PROGRAMMABLE DC POWER SUPPLY

The 62000H Series supplies offer a high power density envelop of maximum 15KW in 3U, deliver low output noise and ripple, excellent line and load regulation, and fast transient response, with wide range of voltage (30V~1000V), current (375A~25A) combinations, suitable for every part of your manufacturing process from design to production testing.



#### MASTER / SLAVE PARALLEL & SERIES OPERATION UP TO 150KW

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.



#### **SOLAR ARRAY SIMULATION FUNCTION \***

Model 62150H-600S/1000S provides a unique feature to simulate the output characteristics of a solar array. This function is useful for MPPT performance evaluation on solar inverter device. User can easily edit the I-V curve, testing and monitor the PV inverter via softpanel , see the right Figure A & B.



Solar Array Simulator

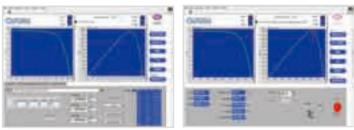


Figure A: IV Curve Edit Table Mode Figure B: Static MPPT Test

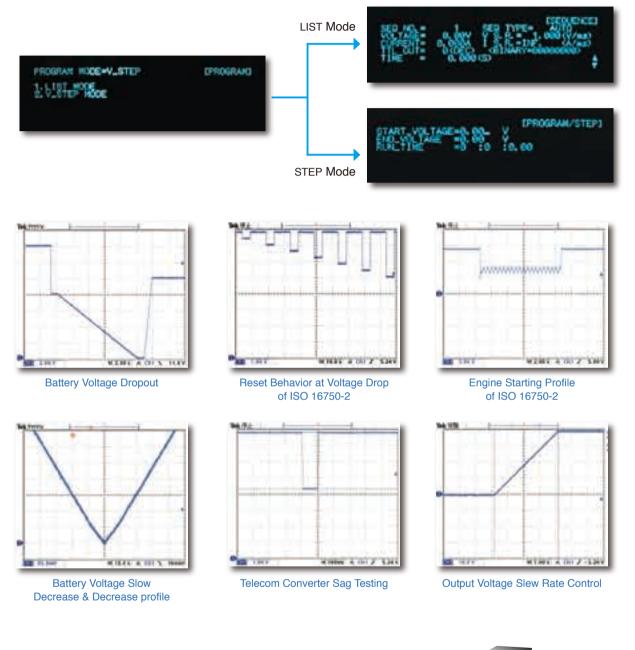


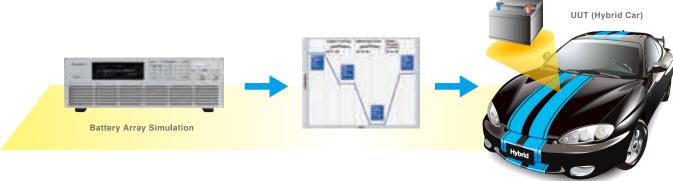


UUT (Solar Inverter)

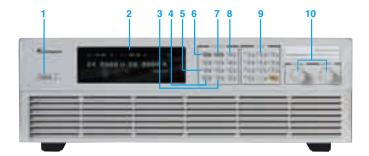
#### PROGRAMMING SEQUENCES APPLICATIONS

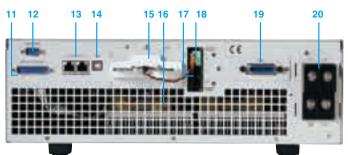
The 62000H Series supplies' LIST and STEP modes allow for auto sequencing function. The LIST mode allows for 100 user programmable sequences with time settings ranging from 5ms to 15000s and voltage / current slew rate control. The STEP mode allows for setting start, end voltage and run time of 10ms 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.





#### **PANEL DESCRIPTION**





- 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

#### 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 (optional)

20. AC Input Terminal

#### **ORDERING INFORMATION**

Power Rating	62000H Series Programmable DC Power Supply
5KW	62050H-40 : Programmable DC Power Supply 40V/125A/5KW
	*62050H-450 : Programmable DC Power Supply 450V/11.5A/5KW
	62050H-600 : Programmable DC Power Supply 600V/8.5A/5KW
10KW	62075H-30 : Programmable DC Power Supply 30V/250A/7.5KW
	62100H-30 : Programmable DC Power Supply 30V/375A/11KW
	62100H-40 : Programmable DC Power Supply 40V/250A/10KW
	*62100H-450 : Programmable DC Power Supply 450V/23A/10KW
	62100H-600 : Programmable DC Power Supply 600V/17A/10KW
	*62100H-600S: Programmable DC Power Supply 600V/17A/10KW with Solar Array Simulation
	62150H-40 : Programmable DC Power Supply 40V/375A/15KW
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
	*62150H-1000S:Programmable DC Power Supply 1000V/15A/15KW with Solar Array Simulation
	GPIB Interface for 62000H Series (Factory installed)
Options	Ethernet Interface for 62000H Series (Factory installed)
	Rack Mounting Kit for 62000H Series

#### Note:

Please specify the input voltage level at time of order.

GPIB or Ethernet Interface (alternative). Please specified at time of order.

\*Call for Availability.

# **ELECTRICAL SPECIFICATIONS -1**

Model	62075H-30	62050H-40	62050H-450	62050H-600	62100H-30	62100H-40
Output Ratings	020101100	0200011 10	0200011 100	0200011 000	021001100	021001110
Output Voltage	0-30V	0-40V	0-450V	0-600V	0-30V	0-40V
Output Current	0-250A	0-125A	0-11.5A	0-8.5A	0-375A	0-250A
Output Power	7500W	5000W	5000W	5000W	11250W	10000W
Line Regulation	750000	500000	3000	300077	1125000	100000
		±0.01% F.S.				
Voltage						
Current	±0.05% F.S.					
Load Regulation	2.001.50					
Voltage	±0.02% F.S.					
Current	±0.1% F.S.					
Voltage Measuremer						
Range	6V / 30V	8V / 40V	90V / 450V	120V / 600V	6V / 30V	8V / 40V
Accuracy	0.05% + 0.05% F.S.					
Current Measuremen						
Range	50A / 250A	25A / 125A	2.3A / 11.5A	1.7A / 8.5A	75A / 375A	50A / 250A
Accuracy			0.1% + 0	.1% F.S.		
Output Noise & Ripp	ole					
Voltage Noise (P-P)	60mV	60mV	300mV	350mV	60mV	60mV
Voltage Ripple (rms)	15mV	15mV	450mV	600mV	15mV	15mV
Current Ripple (rms)	100mA	50mA	20mA	15mA	150mA	100mA
<b>OVP Adjustment Rai</b>	nge					
Range		0-1	110% programmable f	rom front panel or dig	ital	
Accuracy			±1% of full-s	scale output		
<b>Programming Respo</b>	onse Time					
Rise Time: Full Load	6ms	8ms	60ms	60ms	6ms	8ms
Rise Time: No Load	6ms	8ms	60ms	60ms	6ms	8ms
Fall Time: Full Load	6ms	8ms	60ms	60ms	6ms	8ms
Fall Time: 10% Load	100ms	100ms	250ms	250ms	100ms	100ms
Fall Time: No Load	1s	1s	2.5s	2.5s	1s	1s
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
Current slew rate range	0.001A - 1A/ms, or INF	0.001A - 1A/ms, or INF	0.001A - 0.1A/ms, or INF	0.001A - 0.1A/ms, or INF	0.001A - 1A/ms, or INF	0.001A - 1A/ms, or INF
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)					
Efficiency			0.87(T	vpical)		
Drift (30 minutes)			5151 (1)	, p		
Voltage			0.04% (	of Vmax		
Current	0.04% of Vmax 0.06% of Imax					
Drift (8 hours)			0.00701			
Voltage			0.02% (	of Vmax		
Current	0.04% of Imax					
Temperature Coeffic						
Voltage	iciit		0.040/ of	\/max/°C		
	0.04% of Vmax/°C					
Current	0.06% of Imax/°C					

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# **ELECTRICAL SPECIFICATIONS -2**

Model	62100H-450	62100H-600	62150H-40	62150H-450	62150H-600
Output Ratings					
Output Voltage	0-450V	0-600V	0-40V	0-450V	0-600V
Output Current	0-23A	0-17A	0-375A	0-34A	0-25A
Output Power	10000W	10000W	15000W	15000W	15000W
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	90V/450V	120V/600V	8V/40V	90V/450V	120V/600V
Accuracy	0.05% + 0.05%F.S.				
Current Measurement					
Range	4.6A/23A	3.2A/17A	75A/375A	6.8A/34A	5A/25A
Accuracy			0.1% + 0.1%F.S.		
Output Noise & Ripple	)				
Voltage Noise(P-P)	300mV	350mV	60mV	300mV	350mV
Voltage Ripple(rms)	450mV	600mV	15mV	450mV	600mV
Current Ripple(rms)	40mA	30mA	150mA	60mA	45mA
OVP Adjustment Range	-				
Range	,-	0-110% pro	grammable from front pa	nel or digital	
Accuracy			±1% of full-scale output		
Programming Respon	se Time				
Rise Time:Full Load	60ms	60ms	8ms	60ms	60ms
Rise Time:No Load	60ms	60ms	8ms	60ms	60ms
Fall Time: Full Load	60ms	60ms	8ms	60ms	60ms
Fall Time: 10% Load	250ms	250ms	100ms	250ms	250ms
Fall Time: No Load	2.5s	2.5s	1s	2.5s	2.5s
Slew Rate Control					
Voltage slew rate	0.004)// 7.5)//	0.004)// 40)//	0.004)// 5)//	0.004)// 7.5)//	0.004)44 40)44
range	0.001V/ms - 7.5V/ms	0.001V/ms - 10V/ms	0.001V/ms - 5V/ms	0.001V/ms - 7.5V/ms	0.001V/ms - 10V/ms
Current slew rate	0.001A - 0.1A/ms,	0.001A - 0.1A/ms,	0.001A - 1A/ms,	0.001A - 0.1A/ms,	0.001A -0.1A/ms,
range	or INF	or INF	or INF	or INF	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)				
Efficiency			0.87(Typical)		
Drift (30 minutes)			( <b>)</b>		
Voltage			0.04% of Vmax		
Current			0.06% of Imax		
Drift (8 hours)					
Voltage			0.02% of Vmax		
Current			0.04% of Imax		
Temperature Coefficie	ent				
Voltage	0.04% of Vmax/°C				
Current	0.06% of Imax/°C				
	0.00 /o 01 ilitaxi				

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### GENERAL SPECIFICATIONS

3					
<b>Programming &amp; Measure</b>	ment Resolution				
Voltage (Front Panel )		10 mV			
Current (Front Panel)	,		10 mA		
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			0:04 /6 OF IIIIAX		
Analog programming			Standard		
USB		Standard			
RS232		Standard			
RS485		Standard			
GPIB		Optional			
			Optional		
	Ethernet		Standard for master/slave control		
System bus(CAN) Programming Accuracy			Standard for master/slave control		
	Digital Interface )		0.1% of Vmax		
Voltage (Front Panel and Digital Interface ) Current (Front Panel and Digital Interface )			0.1% of Villax		
Voltage (Analog Interface)	orginal internace )				
			0.2% of Vmax		
Current (Analog Interface)	so Timo		0.3% of Imax		
GPIB Command Response Time		CDII	R cond command to DC course receive	or <20mc	
Vout setting Measure V&I			B send command to DC source receiven nder GPIB command using Measure «		
		0	nder GPIB command using Measure	<20118	
Analog Interface (I/O)	amming inputs (I/D)	0	10\/da / 0 E\/da / 0 Ek abm / 4 20 mA	of E.C.	
Voltage and Current Progra		0-10Vdc / 0-5Vdc / 0-5k ohm / 4-20 mA of F.S.			
Voltage and Current monitor	or output (O/P)		0-10Vdc / 0-5Vdc / 4-20mA of F.S		
External ON/OFF (I/P)		Lavallavia and	TTL:Active Low or High(Selective		
DC_ON Signal (O/P)	(O/D)	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)	2)	TTL: Active Low			
System Fault indicator(O/F		TTL: Active Low			
Auxiliary power supply(O/F	2)	Nominal supply voltage : 12Vdc / Maximum current sink capability: 10mA			
Safety interlock(I/P)		Time accuracy: <100ms			
Remote inhibit(I/P)		TTL: Active Low			
Series & Parallel Operation		Master / Slave control via CAN for 10 units up to 150KW. (Series: two units / Parallel: ten units )			
Auto Sequencing(List Mo	ode)				
Number of program		10			
Number of sequence		100			
Dwell time Range		5ms - 15000S			
Trig. Source		Manual / Auto / External			
Auto Sequencing (Step N	/lode)				
Start voltage		0 to Full scale			
End voltage		0 to Full scale			
Run time		10ms - 99hours			
Input Specification					
		208/220 Vac(operating range 187 -242 Vac) *2			
AC input voltage 3phase,	3 wire + ground	380/400 Vac(operating range 342 - 440 Vac)			
A O fra		440/480 Vac(operating range 396 - 528 Vac) *2			
AC frequency range	000/000 \	EIGNANA L LOCA	47-63 Hz	45104444 1 1 2 1 4	
	208/220 Vac	5KW Model:39A	10KW Model:66A	15KW Model:91A	
Max Current(each phase)	380/400 Vac	5KW Model:22A	10KW Model:37A	15KW Model:50A	
0 10 111 11	440/480 Vac	5KW Model:19A	10KW Model:32A	15KW Model:44A	
General Specification				(122(11))	
Maximum Remote Sense I	ine Drop Compensation	<100V model: 5% of full scale voltage per line(10% total)			
Operating Temperature Ra	age.	>100V model :2% of full scale voltage per line (4% total)			
Storage Temperature Rage		0°C ~ 50°C 40°C ~ ±95°C			
Dimension (HxWxD)	<del>-</del>	-40°C ~ +85°C			
וווופוופווווען (מאאארוויום (מאאארווים		132.8 x 428 x 610 mm / 5.23 x 16.85 x 24.02 inch			
Weight		5KW Model : Approx. 23 kg / 50.66 lbs 10KW Model : Approx. 29 kg / 63.88 lbs			
Weight					
		15KW Model : Approx. 35 kg / 77.09 lbs			

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Note\*1: To parallel more than 5 units, please contact factory.

Note\*2: Call for availability.

#### **ELECTRICAL SPECIFICATIONS - Solar Array Simulator Model**

MODEL	62100H-600S*1	62150H-600S	62150H-1000S*1	
Output Ratings	0210011 0000 1	0210011 0000	0210011100001	
Output Voltage	0-600V	0-600V	0-1000V	
Output Current	0-17A	0-25A	0-15A	
Output Power	10000W 15000W		15000W	
Line Regulation	10000	13000	13000**	
Voltage		+/- 0.01% F.S.		
Current				
Load Regulation	+/- 0.05% F.S.			
Voltage		+/- 0.05% F.S.		
Current	+/- 0.05% F.S. +/- 0.1% F.S.			
Voltage Measurement		+/- 0.1% F.S.		
	120V / 600V	120V / 600V	200V / 1000V	
Range Accuracy	120 7 600 7	0.05% + 0.05%F.S.	200 V / 1000 V	
Current Measurement		0.05% + 0.05%F.S.		
	0.04 / 474	404 / 054	00/450	
Range	6.8A / 17A 10A / 25A 6A / 15A			
Accuracy		0.1% + 0.1%F.S.		
Output Noise&Ripple	4500 \	4500 1/	0550 1/	
Voltage Noise(P-P)	1500 mV	1500 mV	2550 mV	
Voltage Ripple(rms)	650 mV	650 mV	1950 mV	
Current Ripple(rms)	300 mA	450 mA	90mA	
OVP Adjustment Range				
Range	0-110% pro	grammable from front panel, remote di	gital inputs.	
Accuracy		+/- 1% of full-scale output		
Programming Response Time				
Rise Time: 50%F.S. CC Load	30ms	30ms	25ms	
Rise Time: No Load	30ms	30ms	25ms	
Fall Time: 50%F.S. CC Load	30ms	30ms	25ms	
Fall Time: 10%F.S. CC Load	100ms	100ms	80ms	
Fall Time: No Load	1.2s	1.2s	3s	
Slew Rate Control				
Voltage Slew Rate Range	0.001V/ms - 20V/ms	0.001V/ms - 20V/ms	0.001V/ms - 40V/ms	
Current Slew Rate Range	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)	
Efficiency		0.87(Typical)		
Programming & Measurement Resolution				
Voltage (Front Panel)	10 mV	10 mV	100mV	
Current (Front Panel)	1mA	1mA	1mA	
Voltage (Digital Interface)		0.002% of Vmax		
Current (Digital Interface)		0.002% of Imax		
Voltage (Analog Interface)		0.04% of Vmax		
Current (Analog Inteface)		0.04% of Imax		
Programming Accuracy				
Voltage (Front Panel and Digital Interface)				
		0.1% of Vmax		
Current (Front Panel and Digital Interface)		0.1% of Vmax		
Current (Front Panel and Digital Interface)  Voltage (Analog Interface)		0.3% of Imax		
Voltage (Analog Interface)		0.3% of Imax 0.2% of Vmax		
Voltage (Analog Interface) Current (Analog Interface)	Master / Slave control via Co	0.3% of Imax 0.2% of Vmax 0.3% of Imax	wo units / Parallel: tan units \	
Voltage (Analog Interface) Current (Analog Interface) Series & Parallel Operation*2	Master / Slave control via C/	0.3% of Imax 0.2% of Vmax	wo units / Parallel: ten units )	
Voltage (Analog Interface) Current (Analog Interface) Series & Parallel Operation*2 Auto Sequencing(I-V program)	Master / Slave control via C/	0.3% of Imax 0.2% of Vmax 0.3% of Imax AN for 10 units up to 150KW. (Series: t	wo units / Parallel: ten units )	
Voltage (Analog Interface) Current (Analog Interface) Series & Parallel Operation*2 Auto Sequencing(I-V program) Number of program	Master / Slave control via C/	0.3% of Imax 0.2% of Vmax 0.3% of Imax AN for 10 units up to 150KW. (Series: t	wo units / Parallel: ten units )	
Voltage (Analog Interface) Current (Analog Interface) Series & Parallel Operation*2 Auto Sequencing(I-V program) Number of program Number of sequence	Master / Slave control via C/	0.3% of Imax 0.2% of Vmax 0.3% of Imax AN for 10 units up to 150KW. (Series: to 1000)	wo units / Parallel: ten units )	
Voltage (Analog Interface) Current (Analog Interface) Series & Parallel Operation*2 Auto Sequencing(I-V program) Number of program Number of sequence Dwell time Range	Master / Slave control via C/	0.3% of Imax 0.2% of Vmax 0.3% of Imax AN for 10 units up to 150KW. (Series: to 1000) 1000 1s - 15,000S	wo units / Parallel: ten units )	
Voltage (Analog Interface) Current (Analog Interface) Series & Parallel Operation*2 Auto Sequencing(I-V program) Number of program Number of sequence Dwell time Range Trig. Source	Master / Slave control via C/	0.3% of Imax 0.2% of Vmax 0.3% of Imax AN for 10 units up to 150KW. (Series: to 1000)	wo units / Parallel: ten units )	
Voltage (Analog Interface) Current (Analog Interface) Series & Parallel Operation*2 Auto Sequencing(I-V program) Number of program Number of sequence Dwell time Range Trig. Source General Specification		0.3% of Imax 0.2% of Vmax 0.3% of Imax AN for 10 units up to 150KW. (Series: to 10 100 1s - 15,000S Manual / Auto		
Voltage (Analog Interface) Current (Analog Interface) Series & Parallel Operation*2 Auto Sequencing(I-V program) Number of program Number of sequence Dwell time Range Trig. Source General Specification Maximum Remote Sense Line Drop Compensation		0.3% of Imax 0.2% of Vmax 0.3% of Imax AN for 10 units up to 150KW. (Series: to 10 100 100 1s - 15,000S Manual / Auto % of full scale voltage per line (4% tota		
Voltage (Analog Interface) Current (Analog Interface) Series & Parallel Operation*2 Auto Sequencing(I-V program) Number of program Number of sequence Dwell time Range Trig. Source General Specification Maximum Remote Sense Line Drop Compensation Operating Temperature Range		0.3% of Imax 0.2% of Vmax 0.3% of Imax AN for 10 units up to 150KW. (Series: to 10 100 150 150 150 150 150 150 150 150		
Voltage (Analog Interface) Current (Analog Interface) Series & Parallel Operation*2 Auto Sequencing(I-V program) Number of program Number of sequence Dwell time Range Trig. Source General Specification Maximum Remote Sense Line Drop Compensation Operating Temperature Range Storage Temperature Range	2'	0.3% of Imax 0.2% of Vmax 0.3% of Imax AN for 10 units up to 150KW. (Series: to 10 100 150 150 150 150 150 150 150 150	I)	
Voltage (Analog Interface) Current (Analog Interface) Series & Parallel Operation*2 Auto Sequencing(I-V program) Number of program Number of sequence Dwell time Range Trig. Source General Specification Maximum Remote Sense Line Drop Compensation Operating Temperature Range Storage Temperature Range Dimension (HxWxD)	2º	0.3% of Imax 0.2% of Vmax 0.3% of Imax AN for 10 units up to 150KW. (Series: to 10 100 1s - 15,000S Manual / Auto % of full scale voltage per line (4% tota 0°C ~ 40°C -40°C ~ +85°C 1x 428 mm x 610 mm / 5.23 x 16.85 x 2000 2000 2000 2000 2000 2000 2000 2	I) 24.02 inch	
Voltage (Analog Interface) Current (Analog Interface) Series & Parallel Operation*2 Auto Sequencing(I-V program) Number of program Number of sequence Dwell time Range Trig. Source General Specification Maximum Remote Sense Line Drop Compensation Operating Temperature Range Storage Temperature Range	2'	0.3% of Imax 0.2% of Vmax 0.3% of Imax AN for 10 units up to 150KW. (Series: to 10 100 150 150 150 150 150 150 150 150	I)	

All specification are subject to change without notice.

Note\*1 : Call for Availability.

Note\*2: To parallel operation more than 5 units, please contact factory. There is parallel mode for DC power supply when the I-V curve function is enabled.

Developed and Manufactured by :

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