

PSW-Multi Series

Dual-channel/Triple-channel Programmable Switching DC Power Supply

FEATURES

- Multi-channel: Maximum 720W for Dual-channel Module and Maximum 1080W for Triple-channel Models; The PSW-Multi Series Aslo Features a New Built-in Function That Allows Individualor Synchronizd Output Control of Eachvoltage Module Output Latency Between Channels with the Same Voltage Module is Less Than 0.1ms
- Multiple Voltage Combinations: Low Voltage Combinations Can be Selected From 30V/40V/80V/160V; High Voltage Combinations Can be Selected From 250V/800V
- Advanced Web Server: Executes SCPI Commands; Web Controls Through Server; Data Log; Edit Sequence
- CC/CV Priority Mode Selection is Ideal for Battery and LED Industries
- Adjustable Rising and Falling Slew Rate
- 720W/1080W Adopt 1/3, 1/2 Rack Mount Frame Designs (Standard EIA/JIS)
- Standard Communications Interfaces: LAN, USB, External Analog Remote Control Terminal
- Optional Communications Interfaces: GPIB-USB Adapter, RS232-USB Cable
- Support LabVIEW Driver



Second to None, Dominating Mid/Low Power Ranges

PSW-Multi Series is a dual-channel or triple-channel wide range output programmable switching DC power supply. The maximum output power can reach 1080W. There are 13 dual-channel models with a rated power of 720W, and 24 triple-channel models with a rated power of 1080W. The rated voltages of low voltage modules are 30V, 40V, 80V, 160V. The rated voltages of high voltage modules are 250V and 800V.

The CV/CC priority selection of the PSW-Multi Series is a very useful feature for DUT protection. The conventional power supply normally operates under CV mode when the power output is turned on. This could bring a high inrush current to the capacitive load or current-intensive load at the power output-on stage. Taking the I-V curve verification of LED as an example, it becomes a very challenging task to perform this measurement using a conventional power supply.

With LED connected to a power supply under CV mode as the initial setting, when the power output is turned on and the voltage rises to the LED forward voltage, the current will suddenly peak up and exceed the preset value of current limit. Upon detecting this high current, the power supply starts the transition from CV mode to CC mode. Though the current becomes stable after the CC mode being activated, the current spike occurred at the CV and CC crossover point may possibly damage the DUT. At the power output-on stage, the PSW-Multi Series is able to operate under CC priority to limit the current spike occurred at the threshold voltage and therefore protects DUT from the inrush current damage.

The adjustable slew rate of the PSW-Multi Series allows users to set for either output voltage or output current, a specific rise time from low to high level transition, and a specific fall time from high to low level transition. This facilitates the characteristic verification of a DUT during voltage or current level changes with controllable slew rates. Most manufacturing tests of lighting device or large capacitor during power output-on are associated with the occurrence of high surge current, which can greatly reduce the life time of the DUT. To prevent inrush current from damaging current-intensive devices, a smooth and slow voltage transition during power On-Off can significantly reduce the pike current and protect the device from high current damage.

The OVP and OCP are provided with the PSW-Multi Series. Both OVP and OCP levels can be selected, with default level set at 110%, of the rated voltage/current of the power supply. When any of the protection levels is tripped, the power output will be switched off to protect the DUT. The PSW-Multi Series provides USB Host/Device and LAN interfaces as standard, GPIB-USB adapter and RS232-USB cable as optional. The LabVIEW driver and the Data Logging PC software are supported on all the available interfaces. An analog control/monitoring connector is also available on the rear panel for external control of power On/Off and external monitoring of power output Voltage and Current.

THE SPECIAL FUNCTIONS ARE AS FOLLOWS



The advanced web server, a unique function of the PSW-Multi Series, can directly execute SCPI commands through the browser and control the PSW-Multi Series power supply. The data log has an interval of 1 second. It can edit output sequence. Wide-range output: Provides a wide range of voltage/current outputs under the same rated power. One power supply has the total capability of multiple power supplies. Bleed Circuit: Accelerates the voltage fall time. Sequence: Saves the output sequence in a USB flash drive to directly control the power supply to execute the automatic test sequence. The CV/CC priority mode of PSW-Multi Series is a very useful feature for protecting the DUT. Conventional power supplies usually operate in CV mode when outputting. During power output, capacitive loads or current-intensive loads can cause inrush currents. Taking the I-V verification curve of an LED as an example, it would be challenging to measure it using a conventional power supply. In the initial state, a conventional power supply operates in CV mode. When the output voltage exceeds the forward voltage of the LED, the current will instantaneously flow, surpassing the default current limit value. Even when the current becomes stable after switching to CC mode, the crossover point between CV and CC can still potentially damage the DUT. However, the PSW-Multi Series is capable of operating in CC mode during power output to suppress inrush currents and prevent damage to the DUT when the voltage instantaneously conducts. Adjustable slew rate allows users to set the rise and fall times of voltage or current. By controlling the slew rate settings, it becomes convenient to verify the DUT under varying voltage or current conditions. In manufacturing tests for lighting devices or large capacitors, power output often generates significant inrush currents, which can greatly reduce the lifespan of the DUT. To prevent damage caused by inrush currents, a slow voltage output significantly reduces the harm caused by inrush currents, thereby achieving device protection. The OVP and OCP functions provided by the PSW-Multi Series can be self-defined and the default value is 110% of the rated value. When the protection setting is triggered, the output will be turned off to protect the DUT. USB and LAN are standard communications interfaces of PSW-Multi Series, while GPIB-USB and RS232-USB are optional accessories. All interfaces support LabVIEW driver and Data Logging PC software.

PANEL INTRODUCTION



DUAL-CHANNEL MODELS ARE AS FOLLOWS

MODEL	CH1	CH2	SIZE
PSW-720L11	30.00V	30.00V	1/3 Rack 3U
PSW-720L12	30.00V	40.00V	1/3 Rack 3U
PSW-720L14	30.00V	80.00V	1/3 Rack 3U
PSW-720L15	30.00V	160.0V	1/3 Rack 3U
PSW-720L22	40.00V	40.00V	1/3 Rack 3U
PSW-720L24	40.00V	80.00V	1/3 Rack 3U
PSW-720L25	40.00V	160.0V	1/3 Rack 3U
PSW-720L44	80.00V	80.00V	1/3 Rack 3U
PSW-720L45	80.00V	160.0V	1/3 Rack 3U
PSW-720L55	160.0V	160.0V	1/3 Rack 3U
PSW-720H66	250.0V	250.0V	1/3 Rack 3U
PSW-720H68	250.0V	800.0V	1/3 Rack 3U
PSW-720H88	800.0V	800.0V	1/3 Rack 3U

TRIPLE-CHANNEL MODELS ARE AS FOLLOWS

MODEL	СН1	CH2	CH3	SIZE
PSW-1080L111	30.00V	30.00V	30.00V	1/2 Rack 3U
PSW-1080L112	30.00V	30.00V	40.00V	1/2 Rack 3U
PSW-1080L114	30.00V	30.00V	80.00V	1/2 Rack 3U
PSW-1080L115	30.00V	30.00V	160.0V	1/2 Rack 3U
PSW-1080L122	30.00V	40.00V	40.00V	1/2 Rack 3U
PSW-1080L124	30.00V	40.00V	80.00V	1/2 Rack 3U
PSW-1080L125	30.00V	40.00V	160.0V	1/2 Rack 3U
PSW-1080L144	30.00V	80.00V	80.00V	1/2 Rack 3U
PSW-1080L145	30.00V	80.00V	160.0V	1/2 Rack 3U
PSW-1080L155	30.00V	160.0V	160.0V	1/2 Rack 3U
PSW-1080L222	40.00V	40.00V	40.00V	1/2 Rack 3U
PSW-1080L224	40.00V	40.00V	80.00V	1/2 Rack 3U
PSW-1080L225	40.00V	40.00V	160.0V	1/2 Rack 3U
PSW-1080L244	40.00V	80.00V	80.00V	1/2 Rack 3U
PSW-1080L245	40.00V	80.00V	160.0V	1/2 Rack 3U
PSW-1080L255	40.00V	160.0V	160.0V	1/2 Rack 3U
PSW-1080L444	80.00V	80.00V	80.0V	1/2 Rack 3U
PSW-1080L445	80.00V	80.00V	160.0V	1/2 Rack 3U
PSW-1080L455	80.00V	160.0V	160.0V	1/2 Rack 3U
PSW-1080L555	160.0V	160.0V	160.0V	1/2 Rack 3U
PSW-1080H666	250.0V	250.0V	250.0V	1/2 Rack 3U
PSW-1080H668	250.0V	250.0V	800.0V	1/2 Rack 3U
PSW-1080H688	250.0V	800.0V	800.0V	1/2 Rack 3U
PSW-1080H888	800.0V	800.0V	800.0V	1/2 Rack 3U

. MULTI-RANGE OPERATION





PSW 30V/40V Series Operating Area

PSW 80V/160V Series Operating Area

PSW 250V/800V Series Operating Area

When the power supply is configured that the total output (Current x Voltage output) is less than the rated power output, it functions as a typical Constant Current (CC) and Constant Voltage (CV) power supply.

However, when the power supply is configured such that the total output power (Current x Voltage Output) exceeds the rated power output, the effective output is actually limited to the operation area of the unit.

B. MULTI-CHANNEL



Figure 1





When using a single-channel power supply with three units connected in parallel through the backplane for synchronized output, each unit will experience a voltage output latency of approximately 5 to 10 ms. (Figure 1)

The waveform of PSW-Multi Series in triple-channel synchronized output mode exhibits voltage output latency times less than 0.1 ms for each channel (with the same voltage model) (Figure 2)

Multi-Channel, Dual-channel or triple-channel; the output latency between channels for same voltage module is less than 0.1ms.

When using a single-channel power supply for parallel multiple voltage output testing, there are different delays and slew rate settings, resulting in longer voltage output delay times and lack of control. The PSW-Multi Series features a built-in synchronous output control function (F130) that allow Dual-channel or triple-channel; the output latency between channels for same voltage module is less than 0.1ms.

It can fulfill diverse testing applications, for example: multi-channel digital device testing, electronic circuit verification, battery charging and discharging testing, and more.

C. ADVANCED WEB SERVER



SCPI commands can be issued directly on the browser, examples are as follows: Direct control of PSW-Multi series power supplies on the browser. (Figure 1)

Data Log can be performed on the browser. For standard web server, the fastest data log time interval is 1 second. PSW-Multi series also provide paid version (active by option license key), the fastest data log time interval is 0.1 seconds and the data save to USB drive directly. (Figure 2)

Sequences can be edited on the browser. (Figure 3)

The above advanced web server functions are new functions of PSW-Multi. Currently, there is no plan to update the advanced web server in the existing PSW-Series (Single Channel). (Figure 4)

D. CV / CC PRIORITY SELECTION





The Inrush Current and Surge Voltage occur at LED Forward Voltage(Vf)Under C.V Priority

ADJUSTABLE SLEW RATE

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The Adjustable Rise Time

current-drawn devices like capacitors.

of the PSW 30V Module

The CC Priority Feature Effectively Limits the Occurrence of Inrush Current and Surge Voltage when the Supplied Voltage Rises to the LED Forward Voltage

The Adjustable Rise Time

of the PSW 800V Module

The PSW-Multi Series provides CC Mode and CV Mode to fit various applications in the general purpose market. To get into critical application niches, however, the power supply needs to provide advanced features





V-I Characteristic of Diode

Using GDS-3354 DSO to Test LED Operation Under CV Priority and CC Priority Respectively

to meet the specific requirements. The CC and CV Priority Selection enable the power supply to run under CC priority, rather than normal CV priority, at the output-on stage.

F. BLEEDER CONTROL



PSW-Multi Series Built-in Bleed Resistor

The PSW-Multi Series employs a bleed resistor in parallel with the output terminal. Bleed resistor is designed to dissipatch the power from the power supply filter capacitors when power is turned off and the load is disconnected. Without a bleed resistor, power terminal may remain charged on the filter capacitors for some time and be potentially hazardous. In addition, bleed resistor also allows for smoother voltage regulation of the power supply as the bleed resistor acts as a minimum voltage load. The bleed resistance can be turned on or off using the configuration setting.

G. EXTERNAL ANALOG REMOTE CONTROL

The PSW-Multi Series has adjustable slew rates for the level transition of

both Current and Voltage. This gives the PSW-Multi Series power supply

Voltage/Current level transition. The feature also provides the benefit to slow down the voltage transition at the power output-on to protect DUT

from inrush current damage. This is especially useful for the test of heavy-

the ability to set specific rise time and fall time of the Voltage and Current drawn from the power supply to verify DUT performance during the



External Voltage Control of the Voltage Output



External DMM Monitoring of the Output Voltage



External Switch Control of the Main Power Shut-down



External Switch Control of the Output On/Off



External Resistance control of the Voltage Output



External DMM Monitoring of the Output Current

On the rear panel of the PSW-Multi Series power supply, a 26-pin Analog Control connector is available to perform lots of remote control and monitoring functions. The output voltage and current can be set using external voltage or resistance.

The power supply output on/off and main power shut-down can also be controlled using external switches. This Analog Control Connector is complied with the Mil 26 pin connector(OMRON XG4 IDC plug) standard.

H. VARIOUS INTERFACES SUPPORT & EXTENDED TERMINAL BOX



The PSW-Multi Series provides USB Host port in the front panel for easy access of stored data, such as test script program. In the rear panel, a USB Device port is available for remote control or I & V data logging of power output through a PC controller. The LAN interface, which meets DHCP standard, is provided as a standard feature of the PSW-Multi Series for system communications and ATE applications.

GPIB to USB Adapter Extended Terminal (for PSW 30V/40V/80V/160V) Extended Terminal (for PSW 250V/800V) Extended European Terminal (for PSW 30V/40V/80V/160V) An Extender Terminal box (P/N: GET-001/GET-002/GET-005) is provided as optional accessory to extend the power output form the rear panel to the front side. This extender terminal gives R&D or QC engineers convenience to do the jobs without frequently reaching the output

USING THE RACK MOUNT KIT



Rack Mount Kit GRA-410-J (JIS)

The PSW-Multi Series has an optional Rack Mount Kit (GW Instek part number: [JIS] GRA-410-J, [EIA] GRA-410-E[EIA]) that can be used to hold



terminal at the rear side of the PSW-Multi Series.

Rack Mount Kit GRA-410-E (EIA)

6x PSW models, 3x PSW-720 models, 2x PSW-1080 models or a combination of all models (1x PSW, 1x PSW-720 and 1x PSW-1080).



SPECIFICATION									
Module Type	15			1	2	4	5	6	8
H/L Voltage Classicfication			-	L	L	L	L	н	Н
Rated output voltage			V	30	40	80	160	250	800
Rated output current Rated output power			A W	36 360	27 360	13.5 360	7.2 360	4.5	1.44 360
Power ratio			-	3	3	3	3.2	3.125	3.2
Constant Voltage Mode				30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Line regulation (*1)			mV	18	23	43	83	128	403
Load regulation (*2)			mV	20	25	45	85	130	405
Ripple and noise (*3)		p-p (*4)	mV mV	60	60 7	60 7	60	80	150 30
Temperature coefficient		r.m.s. (*5)	ppm/°C	/ 100ppm/°C of rated	output voltage, after a 3		12	15	30
Remote snese compensation	n voltage (single wire)		V	0.6	0.6	0.6	0.6	1	1
Rise time (*6)		Rated load	ms	50	50	50	100	100	150
		No load	ms	50	50	50	100	100	150
Fall time (*7)		Rated load No load	ms	50 500	50 500	50 500	100	150	300 2000
Transient response time (*8	3)	INO IOAU	ms ms	1	300	1	2	2	2000
Constant Current Mode	- <u>)</u>			30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Line regulation (*1)			mA	41	32	18.5	12.2	9.5	6.44
Load regulation (*9)			mA	41	32	18.5	12.2	9.5	6.44
Ripple and noise		r.m.s.	mA	72 200nnm/°C of rated	54 output current, after a 3	27 0 minuto warm up	15	10	5
Temperature coefficient Protection Function			ppm/°C	30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Over voltage protection (OV	/P)	Setting range	V	3-33	4-44	8-88	16-176	20-275	20-880
		Setting accuracy		± (2% of rated output			1	1	
Over current protection (OC	CP)	Setting range	A	3.6-39.6	2.7-29.7	1.35-14.85	0.72-7.92	0.45-4.95	0.144-1.584
Over temp		Setting accuracy		± (2% of rated output Turn the output off	ut current)				
Over temperature protection Low AC input protection (AC		Operation Operation		Turn the output off Turn the output off					
Power limit (POWER LIMIT)	,	Operation		Over power limit.					
		Value (fixed)		Approx. 105% of rat	ed output power				
Analog Programming and N				30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
External voltage control out		at 23 °C ± 5 °C			ty: ±0.5% of rated outpu	-			
External voltage control out External resistor control out		at 23 °C ± 5 °C at 23 °C ± 5 °C			ty: ±1% of rated output o ty: ±1.5% of rated outpu				
External resistor control out		at 23 °C ± 5 °C			ty: ±1.5% of rated outpu				
Output voltage monitor		at 23 °C ± 5 °C		Accuracy: ±1%				Accuracy: ±2%	
Output current monitor		at 23 °C ± 5 °C		Accuracy: ±1%				Accuracy: ±2%	
Shutdown control					with a LOW (0V to 0.5V				
Output on/off control								the output off using a H off using a LOW (0V to 0	
CV/CC/ALM/PWR ON/OUT	T ON indicator				collector output; Maximu			0 (,
Front Panel				30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Display, 4 digits	Voltage accuracy	at 23 °C ± 5 °C; ± (0.1% +	mV	20	20	20	100	200	400
	Current accuracy	at 23 °C ± 5 °C; ± (0.1% +	mA	40	30 CC, VSR, ISR, DLY, RMT,	20	5	5	2
Indications				RED LED's: ALM	C, VSR, ISR, DET, RIVIT,	20, 40, 60, 80, 100, %	v, w, v, A		
Buttons					, Set, Test, Lock/Local, F	WR DSPL, Output			
Knobs				Voltage, Current					
USB port				Type A USB connect	or.				
Programming and Measure				30-36	40-27	80-13.5	160-7.2	250-4.5	800-1.44
Programming and Measure Output voltage programmin	ng accuracy	at 23 °C \pm 5 °C; \pm (0.1% +	mV	30-36 10	40-27 10	10	100	200	400
Programming and Measurer Output voltage programmin Output current programmin	ng accuracy ng accuracy	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% +	mA	30-36	40-27	10 10	100 5	200 5	400 2
Programming and Measure Output voltage programmin	ng accuracy ng accuracy ng resolution			30-36 10 30	40-27 10 20	10	100	200	400
Programming and Measurer Output voltage programmin Output current programmin Output voltage programmin Output current programmin Output current programmin Output voltage measureme	ng accuracy ng accuracy ng resolution ng resolution nt accuracy	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% +	mA mV	30-36 10 30 1 1 10	40-27 10 20 1 1 1 10	10 10 2 1 10	100 5 3 1 100	200 5 5 1 200	400 2 14 1 400
Programming and Measuree Output voltage programmin Output current programmin Output voltage programmin Output current programmin Output voltage measuremee Output current measuremee	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy	at 23 °C ± 5 °C; ± (0.1% +	mA mV mA mV mA	30-36 10 30 1 1 10 30	40-27 10 20 1 10 20	10 10 2 1 10 10	100 5 3 1 100 5	200 5 1 200 5	400 2 14 1 400 2
Programming and Measure Output voltage programmin Output current programmin Output voltage programmin Output voltage measuremen Output voltage measuremen Output voltage measuremen Output voltage measuremen	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% +	mA mV mA mV mA mV	30-36 10 30 1 1 10 30 1 1	40-27 10 20 1 1 10 20 1 1	10 10 2 1 10	100 5 3 1 100 5 3	200 5 1 200 5 5 5 5	400 2 14 1 400 2 14
Programming and Measurel Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measuremen Output voltage measuremen Output voltage measuremen Output voltage measuremen Output voltage measuremen	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% +	mA mV mA mV mA	30-36 10 30 1 1 10 30 1 1 1	40-27 10 20 1 1 10 20 1 1 1	10 10 2 1 10 10 2 2 1	100 5 3 1 100 5 3 1	200 5 1 200 5 5 1	400 2 14 1 400 2 14 1
Programming and Measure: Output voltage programmin Output current programmin Output voltage programmin Output current programmin Output voltage measuremei Output current measuremei Output voltage measuremei Input Characteristics	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% +	mA mV mA mV mA mV	30-36 10 30 1 1 10 30 1 1	40-27 10 20 1 1 10 20 1 1	10 10 2 1 10 10	100 5 3 1 100 5 3	200 5 1 200 5 5 5 5	400 2 14 1 400 2 14
Programming and Measurei Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measuremei Output voltage measuremei Output voltage measuremei Output voltage measuremei Output voltage measuremei Output current measuremei Input Characteristics Efficiency	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% +	mA mV mA mV mA mV	30-36 10 30 1 1 10 30 1 1 30-36	40-27 10 20 1 10 20 1 1 40-27 78 80	10 10 2 1 10 10 2 2 1 80-13.5	100 5 3 1 100 5 3 1 160-7.2	200 5 5 1 200 5 5 1 250-4.5 79 81	400 2 14 1 400 2 14 1 800-1.44
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Programming and Measure: Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measureme: Output voltage measureme: Output current measureme: Output current measureme: Input Characteristics Efficiency Input Characteristics Norminal input rating	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% +	mA mV mA mV mA mA %	30-36 10 30 1 1 10 30 1 1 30-36 77 79 100Vac to 240Vac, 5	40-27 10 20 1 1 20 1 1 40-27 78 80 Dual Channel	10 10 2 1 10 10 2 1 80-13.5 78 80	100 5 3 1 100 5 3 1 1 60-7.2 79	200 5 5 1 200 5 5 1 250-4.5 79 81	400 2 14 1 400 2 14 1 800-1.44 80
Programming and Measurei Output voltage programmin Output voltage programmin Output voltage programmin Output voltage programmin Output urrent programmin Output urrent measuremei Output current measuremei Input Characteristics Efficiency Input Characteristics Norminal input rating Input voltage range Input frequency range Maximum input current	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac	mA mV mA mV mA mV mA %	30-36 10 30 1 10 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac ~ 265Vac	40-27 10 20 1 10 20 1 1 40-27 78 80 Dual Channel OHz to 60Hz, single pha 10 5	10 10 2 1 10 10 2 1 80-13.5 78 80	100 5 3 1 100 5 3 1 1 60-7.2 79	200 5 5 1 200 5 5 1 250-4.5 79 81 Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
Programming and Measurei Output voltage programmin Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measuremei Output voltage measuremei Output urment measuremei Input voltage measuremei Efficiency Input Characteristics Norminal input rating Input voltage range Input voltage range Maximum input current Inrush current	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac	mA mV mA mV mA % % % A A	30-36 10 30 1 10 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac ~ 265Vac	40-27 10 20 1 10 20 1 10 20 1 0Hz to 60Hz, single pha 10 5 Less than 50A	10 10 2 1 10 10 2 1 80-13.5 78 80	100 5 3 1 100 5 3 1 1 60-7.2 79	200 5 5 1 200 5 5 1 250-4.5 79 81 Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
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Programming and Measurei Output voltage programmin Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measuremei Output voltage measuremei Output urment measuremei Input voltage measuremei Efficiency Input Characteristics Norminal input rating Input voltage range Input voltage range Maximum input current Inrush current	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac 100Vac 200Vac 100Vac	mA mV mA mV mA % % % A A	30-36 10 30 1 1 10 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac - 265Vac 47Hz ~ 63Hz 0.99	40-27 10 20 1 10 20 1 10 20 1 0Hz to 60Hz, single pha 10 5 Less than 50A	10 10 2 1 10 10 2 1 80-13.5 78 80	100 5 3 1 100 5 3 1 1 60-7.2 79	200 5 5 1 200 5 5 1 250-4.5 79 81 Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
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Programming and Measurei Output voltage programmin Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measuremei Output voltage measuremei Output current measuremei Input Characteristics Efficiency Input Characteristics Norminal input rating Input voltage range Input frequency range Maximum input current Inrush current Maximum input power Power factor	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac 100Vac 200Vac 100Vac	mA mV mA mV mA % % % A A	30-36 10 30 1 1 10 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac ~ 265Vac 47Hz ~ 63Hz 0.99 0.97	40-27 10 20 1 10 20 1 10 20 1 0Hz to 60Hz, single pha 10 5 Less than 50A	10 10 2 1 10 10 2 1 80-13.5 78 80	100 5 3 1 100 5 3 1 1 60-7.2 79	200 5 5 1 200 5 5 1 250-4.5 79 81 Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
Programming and Measurei Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measuremei Output voltage measuremei Output voltage measuremei Output voltage measuremei Input Characteristics Efficiency Input Characteristics Input Characteristics Input voltage range Input trequency range Maximum input current Inrush current Maximum input power Power factor Hold-up time Interface Capabilities USB	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac 100Vac 200Vac 100Vac	mA mV mA mV mA % % % A A	30-36 10 30 1 1 10 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac ~ 265Vac 47Hz ~ 63Hz 0.99 0.97 20ms or greater TypeA: Host, TypeB:	40-27 10 20 1 1 10 20 1 1 40-27 78 80 Dual Channel 0Hz to 60Hz, single pha 10 5 Less than 50A 1000 Dual Channel Slave, Speed: 1.1/2.0, L	10 10 2 1 10 10 2 1 80-13.5 78 80 Se Se Se	100 5 3 1 100 5 3 1 160-7.2 79 81 	200 5 5 1 200 5 5 1 250-4.5 79 81 Triple Channel 15 7.5 Less than 75A 1500 Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
Programming and Measurei Output voltage programmin Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measuremei Output voltage measuremei Output urment measuremei Input Characteristics Efficiency Input Characteristics Norminal input rating Input voltage range Input frequency range Maximum input current Maximum input power Power factor Hold-up time Interface Capabilities USB LAN	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac 100Vac 200Vac 100Vac	mA mV mA mV mA % % % A A	30-36 10 30 1 1 10 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac ~ 265Vac 47Hz ~ 63Hz 0.99 0.97 20ms or greater TypeA: Host, TypeB: MAC Address, DNS	40-27 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 10 0Hz to 60Hz, single pha 10 5 Less than 50A 1000 Dual Channel Slave, Speed: 1.1/2.0, L IP Address, User Passw	10 10 2 1 10 10 2 1 80-13.5 78 80 Se Se Se	100 5 3 1 100 5 3 1 160-7.2 79 81 	200 5 5 1 200 5 5 1 250-4.5 79 81 Triple Channel 15 7.5 Less than 75A 1500 Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
Programming and Measurei Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measuremei Output voltage measuremei Output voltage measuremei Output voltage measuremei Output voltage measuremei Input Characteristics Efficiency Input Characteristics Norminal input rating Input voltage range Input frequency range Maximum input current Inrush current Maximum input power Power factor Hold-up time Interface Capabilities USB LAN GPIB	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac 100Vac 200Vac 100Vac	mA mV mA mV mA % % % A A	30-36 10 30 1 1 10 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac ~ 265Vac 47Hz ~ 63Hz 0.99 0.97 20ms or greater TypeA: Host, TypeB: MAC Address, DNS	40-27 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 Dual Channel 0Hz to 60Hz, single pha 10 5 Less than 50A 10000 Slave, Speed: 1.1/2.0, L PA Adress, User Passwa (GPIB to USB Adapter)	10 10 2 1 10 10 2 1 80-13.5 78 80 Se Se Se	100 5 3 1 100 5 3 1 160-7.2 79 81 	200 5 5 1 200 5 5 1 250-4.5 79 81 Triple Channel 15 7.5 Less than 75A 1500 Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
Programming and Measure Output voltage programmin Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measureme Output voltage measureme Output voltage measureme Output voltage measureme Output voltage measureme Output current measureme Input Characteristics Efficiency Input Characteristics Norminal input rating Input toltage range Input voltage range Maximum input current Inrush current Maximum input power Power factor Hold-up time Interface Capabilities USB Environmental Conditions	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac 100Vac 200Vac 100Vac	mA mV mA mV mA % % % A A	30-36 10 30 1 1 1 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac - 265Vac 47Hz - 63Hz 0.99 0.97 20ms or greater TypeA: Host, TypeB: MAC Address, DNS Optional: GUG-001	40-27 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 20 10 0Hz to 60Hz, single pha 10 5 Less than 50A 1000 Dual Channel Slave, Speed: 1.1/2.0, L IP Address, User Passw	10 10 2 1 10 10 2 1 80-13.5 78 80 Se Se Se	100 5 3 1 100 5 3 1 160-7.2 79 81 	200 5 5 1 200 5 5 1 250-4.5 79 81 Triple Channel 15 7.5 Less than 75A 1500 Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
Programming and Measurei Output voltage programmin Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measuremei Output voltage measuremei Output voltage measuremei Output voltage measuremei Input Characteristics Efficiency Input Characteristics Norminal input rating Input voltage range Input frequency range Maximum input current Inrush current Maximum input power Power factor Hold-up time Interface Capabilities USB LAN GPIB Environmental Conditions Operaing temperature	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac 100Vac 200Vac 100Vac	mA mV mA mV mA % % % A A	30-36 10 30 1 1 10 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac ~ 265Vac 47Hz ~ 63Hz 0.99 0.97 20ms or greater TypeA: Host, TypeB: MAC Address, DNS	40-27 10 20 1 10 20 1 10 20 1 10 20 1 10 20 1 10 Dual Channel 0Hz to 60Hz, single pha 10 5 Less than 50A 10000 Slave, Speed: 1.1/2.0, L PA Adress, User Passwa (GPIB to USB Adapter)	10 10 2 1 10 10 2 1 80-13.5 78 80 Se Se Se	100 5 3 1 100 5 3 1 160-7.2 79 81 	200 5 5 1 200 5 5 1 250-4.5 79 81 Triple Channel 15 7.5 Less than 75A 1500 Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
Programming and Measure Output voltage programmin Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measureme Output voltage measureme Output voltage measureme Output voltage measureme Output voltage measureme Output voltage measureme Input Characteristics Norminal input rating Input voltage range Input frequency range Maximum input current Inrush current Maximum input power Power factor Hold-up time Interface Capabilities USB LAN GPIB Environmental Conditions Operaing temperature Operating humidity	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac 100Vac 200Vac 100Vac	mA mV mA mV mA % % % A A	30-36 10 30 1 1 1 30 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac - 265Vac 47Hz - 63Hz 47Hz - 63Hz 0.99 0.97 20ms or greater TypeA: Host, TypeB: MAC Address, DNS Optional: GUG-001 0 °C to 50 °C -25 °C to 70 °C 20% to 85% RH; Nc	40-27 10 20 1 1 20 1 1 1 20 1 1 1 10 20 1 1 1 40-27 78 80 Dual Channel 0Hz to 60Hz, single pha 10 5 Less than 50A 1000 Dual Channel Slave, Speed: 1.1/2.0, L PAddress, User Passw (GPIB to USB Adapter) Dual Channel condensation	10 10 2 1 10 10 2 1 80-13.5 78 80 Se Se Se	100 5 3 1 100 5 3 1 160-7.2 79 81 	200 5 5 1 200 5 5 1 250-4.5 79 81 Triple Channel 15 7.5 Less than 75A 1500 Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
Programming and Measurei Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measuremei Output voltage measuremei Output voltage measuremei Output voltage measuremei Input characteristics Efficiency Input Characteristics Norminal input rating Input voltage range Input voltage range Maximum input rating Input server Maximum input current Inrush current Maximum input power Power factor Hold-up time Interface Capabilities USB LAN GPIB Environmental Conditions Operaing temperature Operating humidity	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac 100Vac 200Vac 100Vac	mA mV mA mV mA % % % A A	30-36 10 30 1 1 10 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac - 265Vac 47Hz - 63Hz 0.99 0.97 20ms or greater TypeA: Host, TypeB: MAC Address, DNS Optional: GUG-001 0°C to 50°C -25°C to 70°C 20% to 85% RH; Nc 90% RH or less; No	40-27 10 20 1 1 20 1 1 1 20 1 1 1 10 20 1 1 1 40-27 78 80 Dual Channel 0Hz to 60Hz, single pha 10 5 Less than 50A 1000 Dual Channel Slave, Speed: 1.1/2.0, L PAddress, User Passw (GPIB to USB Adapter) Dual Channel condensation	10 10 2 1 10 10 2 1 80-13.5 78 80 Se Se Se	100 5 3 1 100 5 3 1 160-7.2 79 81 	200 5 5 1 200 5 5 1 250-4.5 79 81 Triple Channel 15 7.5 Less than 75A 1500 Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
Programming and Measurei Output voltage programmin Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measuremei Output voltage measuremei Output voltage measuremei Output current measuremei Input Characteristics Efficiency Input Characteristics Norminal input rating Input voltage range Input frequency range Maximum input current Maximum input current Maximum input power Power factor Hold-up time Interface Capabilities USB LAN GPIB Environmental Conditions Operaing temperature Storage temperature Storage temperature Storage humidity Altitude	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac 100Vac 200Vac 100Vac	mA mV mA mV mA % % % A A	30-36 10 30 1 1 1 30 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac - 265Vac 47Hz - 63Hz 47Hz - 63Hz 0.99 0.97 20ms or greater TypeA: Host, TypeB: MAC Address, DNS Optional: GUG-001 0 °C to 50 °C -25 °C to 70 °C 20% to 85% RH; Nc	40-27 10 20 1 1 1 10 20 1 1 1 10 20 1 1 1 10 20 1 1 1 1	10 10 2 1 10 10 2 1 80-13.5 78 80 Se Se Se	100 5 3 1 100 5 3 1 160-7.2 79 81 	200 5 5 1 200 5 1 250-4.5 79 81 Triple Channel 15 7.5 Less than 75A 1500 Triple Channel 1 s, Subnet Mask Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
Programming and Measure Output voltage programmin Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measureme Output voltage measureme Output voltage measureme Output voltage measureme Input voltage measureme Input Characteristics Norminal input rating Input voltage range Input frequency range Maximum input current Inrush current Maximum input power Power factor Hold-up time Interface Capabilities USB LAN GPIB Environmental Conditions Operaing temperature Storage temperature Storage humidity Atitude General Specifications	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac 100Vac 200Vac 100Vac 200Vac 100Vac 200Vac	mA mV mA mV mA % % % %	30-36 10 30 1 1 10 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac - 265Vac 47Hz - 63Hz 0.99 0.97 20ms or greater TypeA: Host, TypeB: MAC Address, DNS Optional: GUG-001 0°C to 50°C -25°C to 70°C 20% to 85% RH; Nc 90% RH or less; No	40-27 10 20 1 10 20 1 10 20 1 1 40-27 78 80 Dual Channel 0Hz to 60Hz, single pha 10 5 Less than 50A 1000 Slave, Speed: 1.1/2.0, L IP Address, User Passw (GPIB to USB Adapter) Dual Channel * condensation condensation Dual Channel	10 10 2 1 10 10 2 1 80-13.5 78 80 Se Se Se	100 5 3 1 100 5 3 1 160-7.2 79 81 	200 5 5 1 200 5 5 1 250-4.5 79 81 Triple Channel 7,5 Less than 75A 1500 Triple Channel 7,5 Less than 75A 1500	400 2 14 1 400 2 14 1 800-1.44 80
Programming and Measure Output voltage programmin Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measureme Output voltage measureme Output voltage measureme Output voltage measureme Output voltage measureme Output voltage measureme Input Characteristics Efficiency Input Characteristics Norminal input rating Input voltage range Input frequency range Maximum input current Inrush current Maximum input power Power factor Hold-up time Interface Capabilities USB LAN GPIB Environmental Conditions Operaing temperature Storage temperature Storage humidity Altitude General Specifications	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac 100Vac 200Vac 100Vac	mA mV mA mV mA % % % A A	30-36 10 30 1 1 10 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac - 265Vac 47Hz - 63Hz 0.99 0.97 20ms or greater TypeA: Host, TypeB: MAC Address, DNS Optional: GUG-001 0°C to 50°C -25°C to 70°C 20% to 85% RH; Nc 90% RH or less; No	40-27 10 20 1 1 1 10 20 1 1 1 10 20 1 1 1 10 20 1 1 1 1	10 10 2 1 10 10 2 1 80-13.5 78 80 Se Se Se	100 5 3 1 100 5 3 1 160-7.2 79 81 	200 5 5 1 200 5 1 250-4.5 79 81 Triple Channel 15 7.5 Less than 75A 1500 Triple Channel 1 s, Subnet Mask Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
Programming and Measurei Output voltage programmin Output voltage programmin Output voltage programmin Output voltage measuremei Output voltage measuremei Output voltage measuremei Output voltage measuremei Output voltage measuremei Input Characteristics Efficiency Input Characteristics Norminal input rating Input voltage range Input frequency range Maximum input current Maximum input current Inrush current Maximum input power Power factor Hold-up time Interface Capabilities USB LAN GPIB Environmental Conditions Operaing temperature Operating humidity Storage humidity Altitude General Specifications	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac	mA mV mA mV mA mV % % %	30-36 10 30 1 1 10 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac - 265Vac 47Hz - 63Hz 0.99 0.97 20ms or greater TypeA: Host, TypeB: MAC Address, DNS Optional: GUG-001 0°C to 50°C -25°C to 70°C 20% to 85% RH; Nc 90% RH or less; No	40-27 10 20 1 10 20 1 1 10 20 1 10 20 1 1 10 20 1 1 10 20 10 10 5 Dual Channel 0 Dual Channel Slave, Speed: 1.1/2.0, L IP Address, User Passw (GPIB to USB Adapter) Dual Channel condensation Condensati	10 10 2 1 10 10 2 1 80-13.5 78 80 Se Se Se	100 5 3 1 100 5 3 1 160-7.2 79 81 	200 5 5 1 200 5 5 5 1 250-4.5 79 8 81 Triple Channel 75 7.5 Less than 75A 1500 Triple Channel s, Subnet Mask Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
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Programming and Measurei Output voltage programmin Output voltage programmin Output voltage programmin Output voltage megaremei Output voltage measuremei Output voltage measuremei Output voltage measuremei Output current measuremei Input Characteristics Efficiency Input Characteristics Norminal input rating Input voltage range Input frequency range Maximum input current Maximum input current Maximum input power Power factor Hold-up time Interface Capabilities USB LAN GPIB Environmental Conditions Operaing temperature Operating humidity Storage humidity Altitude General Specifications Weight Dimensions Cooling EMC	ng accuracy ng accuracy ng resolution ng resolution nt accuracy nt accuracy nt resolution	at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + at 23 °C ± 5 °C; ± (0.1% + 100Vac 200Vac 100Vac 200Vac 100Vac 200Vac 100Vac 200Vac 100Vac 200Vac 100Vac 200Vac 100Vac 200Vac 100Vac 200Vac	mA mV mA mV mA mV % % %	30-36 10 30 1 1 10 30 1 1 30-36 77 79 100Vac to 240Vac, 5 85Vac - 265Vac 47Hz - 63Hz 0.99 0.97 20ms or greater TypeA: Host, TypeB: MAC Address, DNS Optional: GUG-001 0°C to 50°C -25°C to 70°C 20% to 85% RH; Nc 90% RH or less; No Maximum 2000m Forced air cooling b Complies with the E Complies with the E	40-27 10 20 1 10 20 1 1 10 20 1 1 10 20 1 1 10 20 11 10 20 11 10 5 0012 to 60Hz, single pha 10 0Hz to 60Hz, single pha 10 5 Less than 50A 1000 Dual Channel Slave, Speed: 1.1/2.0, L IP Address, User Passw (GPIB to USB Adapter) Dual Channel condensation Condensation Dual Channel Approx. 5.4kg 142 x 124 x 350 y internal fan uropean EMC directive fi	10 10 2 1 10 2 1 80-13.5 78 80 Se Se Se Se Se Se Se Se Se Se	100 5 3 1 1 100 5 3 1 100 5 3 1 100 5 8 1 1 100 5 8 1 1 100 5 8 1 1 100 5 1 1 100 5 1 1 1 1 1 1 1 1 1 1	200 5 5 1 200 5 5 5 1 250-4.5 79 8 81 Triple Channel 75 7.5 Less than 75A 1500 Triple Channel s, Subnet Mask Triple Channel	400 2 14 1 400 2 14 1 800-1.44 80
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Notes : *1: At 85 ~ 132Vac or 170 ~ 265Vac, constant load.

- *2: From No-load to Full-load, constant input voltage. Measured at the sensing point in Remote Sense.
- *3: Measure with JEITA RC-9131B (1:1) probe
- *4: Measurement frequency bandwidth is 10Hz to 20MHz.
- *5: Measurement frequency bandwidth is 5Hz to 1MHz.

ORDERING INFORMATION

Dual Channel Model

Dual Channe	l Model
PSW-720L11	30V/36A*2 720W Multi-Range D.C. Power Supply
PSW-720L12	30V/36A*1 40V/27A*1 720W Multi-Range D.C. Power Supply
PSW-720L14	30V/36A*1 80V/13.5A*1 720W Multi-Range D.C. Power Supply
PSW-720L15	30V/36A*1 160V/7.2A*1 720W Multi-Range D.C. Power Supply
PSW-720L22	40V/27A*2 720W Multi-Range D.C. Power Supply
PSW-720L24	40V/27A*1 80V/13.5A*1 720W Multi-Range D.C. Power Supply
PSW-720L25	40V/27A*1 160V/7.2A*1 720W Multi-Range D.C. Power Supply
PSW-720L44	80V/13.5A*2 720W Multi-Range D.C. Power Supply
PSW-720L45	80V/13.5A*1 160V/7.2A*1 720W Multi-Range D.C. Power Supply
PSW-720L55	160V/7.2A*2 720W Multi-Range D.C. Power Supply
PSW-720H66	250V/4.5A*2 720W Multi-Range D.C. Power Supply
PSW-720H68	250V/4.5A*1 800V/1.44A*1 720W Multi-Range D.C. Power Supply
PSW-720H88	800V/1.44A*2 720W Multi-Range D.C. Power Supply
Triple Channe	el Model
PSW-1080L111	30V/36A*3 1080W Multi-Range D.C. Power Supply
PSW-1080L112	30V/36A*2 40V/27A*1 1080W Multi-Range D.C. Power Supply
PSW-1080L114	30V/36A*2 80V/13.5A*1 1080W Multi-Range D.C. Power Supply
PSW-1080L115	30V/36A*2 160V/7.2A*1 1080W Multi-Range D.C. Power Supply
PSW-1080L122	30V/36A*1 40V/27A*2 1080W Multi-Range D.C. Power Supply
PSW-1080L124	30V/36A*1 40V/27A*1 80V/13.5A*1 1080W Multi-Range D.C. Power Supply
PSW-1080L125	30V/36A*1 40V/27A*1 160V/7.2A 1080W Multi-Range D.C. Power Supply
PSW-1080L144	30V/36A*1 80V/13.5A*2 1080W Multi-Range D.C. Power Supply
PSW-1080L145	30V/36A*1 80V/13.5A*1 160V/7.2A*1 1080W Multi-Range D.C. Power Supply
PSW-1080L155	30V/36A*1 160V/7.2A*2 1080W Multi-Range D.C. Power Supply
PSW-1080L222	40V/27A*3 1080W Multi-Range D.C. Power Supply
PSW-1080L224	40V/27A*2 80V/13.5A*1 1080W Multi-Range D.C. Power Supply
PSW-1080L225	40V/27A*2 160V/7.2A*1 1080W Multi-Range D.C. Power Supply
PSW-1080L244	40V/27A*1 80V/13.5A*2 1080W Multi-Range D.C. Power Supply
PSW-1080L245	40V/27A*1 80V/13.5A*1 160V/7.2A*1 1080W Multi-Range D.C. Power Supply
PSW-1080L255	40V/27A*1 160V/7.2A*2 1080W Multi-Range D.C. Power Supply
PSW-1080L444	80V/13.5A*3 1080W Multi-Range D.C. Power Supply
PSW-1080L445	80V/13.5A*2 160V/7.2A*1 1080W Multi-Range D.C. Power Supply
PSW-1080L455	80V/13.5A*1 160V/7.2A*2 1080W Multi-Range D.C. Power Supply
PSW-1080L555	160V/7.2A*3 1080W Multi-Range D.C. Power Supply
PSW-1080H666	250V/4.5A*3 1080W Multi-Range D.C. Power Supply
PSW-1080H668	250V/4.5A*2 800V/1.44A*1 1080W Multi-Range D.C. Power Supply
PSW-1080H688	250V/4.5A*1 800V/1.44A*2 1080W Multi-Range D.C. Power Supply
PSW-1080H888	800V/1.44A*3 1080W Multi-Range D.C. Power Supply
Apart from the diffe	rences in output type, each unit differs at output channels and voltage.

Apart from the differences in output type, each unit differs at output channels and voltage. The PSW-720 is dual channel output and PSW-1080 is triple channel output.

- *6: From 10% to 90% of rated output voltage, with rated resistive load.
- *7: From 90% to 10% of rated output voltage, with rated resistive load. *8: Time for output voltage to recover within 0.1% + 10mV of its rated output for
- a load change from 50 to 100% of its rated output current.
- *9: For load voltage change, equal to the unit voltage rating, constant input voltage.

ACCESSORIES

Power Cor	d x1 (Region dependent)
	Test Lead x 1 (30V/40V/80V/160V low voltage module per channel)
GTL-240	USB Cable"L" Type
	Basic Accessories Kit (30V/40V/80V/160V low voltage module)
PSW-008	Basic Accessories Kit (250V/800V high voltage module)
PSW-009	Output terminal cover (30V/40V/80V/160V low voltage module)
PSW-011	Output terminal cover (250V/800V high voltage module)
PSW-012	High voltage output terminal (250V/800V high voltage module)
OPTION	AL ACCESSORIES
PSW-001	Accessory Kit
PSW-002	Simple IDC Tool
PSW-002	Contact Removal Tool
GUG-001	GPIB to USB Adaptor
	Rack Mount Kit (JIS)
	Rack Mount Kit (KIA)
GET-001	
GEI-001	Extended Terminal with max. 30A (30V/40V/80V/160V low voltage module)
GET-002	Extended Terminal with max. 10A (250V/800V high voltage module)
GET-005	Extended European Terminal with max. 20A (30V/40V/80V/ 160V low voltage module)
GTL-130	Test Lead: 2x red, 2x black (250V/800V high voltage module)
GTL-248	GPIB Cable, 2000mm
GTL-250	GPIB Cable, 600mm
GUR-001A	USB to RS-232 Cable (M3), 3000mm
GUR-001B	USB to RS-232 Cable (#4-40 UNC), 3000mm
1	



Two-channel Models Rear Panel



Three-channel Models Rear Panel



Two-channel Models Front Panel



Three-channel Models Front Panel

PRIMARY APPLICATIONS

Multi-channel Power Supplies are Widely Used in Various Fields:

- * Electronics Product Development and Testing
- * Automated Production Lines
- * Laboratory Equipment Driving
- * Industrial Control Systems
- * Automotive Electronic Testing











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