

# **PSW-Series**

Multi-Range D.C. Power Supply



99 Washington Street Melrose, MA 02176 Phone 781-665-1400 Toll Free 1-800-517-8431

#### **FEATURES**

- Voltage Rating: 30V/80V/160V/250V/800V, Output Power Rating: 360W~1080W
- · Constant Power Output for Multi-Range ( V & I ) Operation
- . C.V / C.C Priority; Particularly Suitable for the Battery and LED Industry
- Adjustable Slew Rate
- Series Operation (2 units in Series) for (30V/80V/160V), Parallel Operation (3 units in Parallel) for (30V/80V/160V/250V/800V)
- High Efficiency and High Power Density
- 1/2, 1/3, 1/6 Rack Mount Size Design (EIA/JIS Standard) for 360W, 720W, 1080W
- Standard Interface : LAN, USB, Analog Control Interface
- Optional Interface : GPIB-USB Adaptor
- LabVIEW Driver



## Powerful Stretch with Multi-range Technology

The PSW-Series is a single-output multi-range programmable switching DC Power Supply covering a power range up to 1080W. This series of products include fifteen models with the combination of 30V, 80V, 160V, 250V and 800V rated voltages and 360W, 720W and 1080W maximum output powers. The multi-range feature allows the flexible and efficient configuration of voltage and current within the rated power range. As the PSW-Series can be connected in series for maximum 2 units or in parallel for maximum 3 units, the capability of connecting multiple PSW-Series units for higher voltage or higher current output provides a broad coverage of applications. With the flexibility of multi-range power utilization and series/parallel connection, the PSW-Series significantly reduces the users' cost for various power supply products to accommodate the projects with different power requirements.

The C.V/C.C priority selection of the PSW-Series is a very useful feature for DUT protection. The conventional power supply normally operates under C.V 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 C.V 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 C.V mode to C.C mode. Though the current becomes stable after the C.C mode being activated, the current spike occurred at the C.V and C.C crossover point may possibly damage the DUT. At the power output-on stage, the PSW-Series is able to operate under C.C 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-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 spike current and protect the device from high current damage.

The OVP and OCP are provided with the PSW-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-Series provides USB Host/Device and LAN interfaces as standard and GPIB-USB adaptor 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.



#### PSW-Series (HV) Rear Panel



### PARALLEL OPERATION (3 UNITS)

MODEL	SINGLE UNIT	2 UNITS	3 UNITS
PSW 30-36	30V/36A	30V/72A	30V/108A
PSW 30-72	30V/72A	30V/144A	30V/216A
PSW 30-108	30V/108A	30V/216A	30V/324A
PSW 80-13.5	80V/13.5A	80V/27A	80V/40.5A
PSW 80-27	80V/27A	80V/54A	80V/81A
PSW 80-40.5	80V/40.5A	80V/81A	80V/121.5A
PSW 160-7.2	160V/7.2A	160V/14.4A	160V/21.6A
PSW 160-14.4	160V/14.4A	160V/28.8A	160V/43.2A
PSW 160-21.6	160V/21.6A	160V/43.2A	160V/64.8A
PSW 250-4.5	250V/4.5A	250V/9A	250V/13.5A
PSW 250-9	250V/9A	250V/18A	250V/27A
PSW 250-13.5	250V/13.5A	250V/27A	250V/40.5A
PSW 800-1.44	800V/1.44A	800V/2.88A	800V/4.32A
PSW 800-2.88	800V/2.88A	800V/5.76A	800V/8.64A
PSW 800-4.32	800V/4.32A	800V/8.64A	800V/12.96A

#### PSW-Series (LV) Rear Panel



#### SERIES OPERATION (2 UNITS)

MODEL	SINGLE UNIT	2 UNITS			
PSW 30-36	30V/36A	60V/36A			
PSW 30-72	30V/72A	60V/72A			
PSW 30-108	30V/108A	60V/108A			
PSW 80-13.5	80V/13.5A	160V/13.5A			
PSW 80-27	80V/27A	160V/27A			
PSW 80-40.5	80V/40.5A	160V/40.5A			
PSW 160-7.2	160V/7.2A	320V/7.2A			
PSW 160-14.4	160V/14.4A	320V/14.4A			
PSW 160-21.6	160V/21.6A	320V/21.6A			
PSW 250-4.5	N/A	N/A			
PSW 250-9	N/A	N/A			
PSW 250-13.5	N/A	N/A			
PSW 800-1.44	N/A	N/A			
PSW 800-2.88	N/A	N/A			
PSW 800-4.32	N/A	N/A			



PSW 80-40.5 (0-80V, 0-40.5A, 1080W)

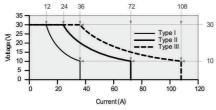


PSW 80-27 (0-80V, 0-27A, 720W)

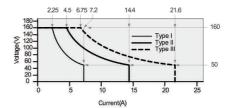


PSW 80-13.5 (0-80V, 0-13.5A, 360W)

#### A. MULTI-RANGE OPERATION



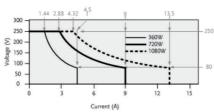
4.5 9.0 13.5 27 40.5 80 80 20 0 5 10 15 20 25 30 35 40 45 Current(A)

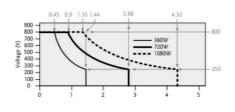


PSW 30V Series Operating Area

**PSW 80V Series Operating Area** 

**PSW 160V Series Operating Area** 





PSW 250V Series Operating Area

**PSW 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 (C.C) and Constant Voltage (C.V) power supply.

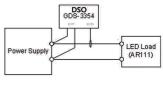
However, when the power supply is configured such that the total output power (Current x Voltage Output) exceeds the rated power output, the effective output is actually limited to the operation area of the unit.

#### C.V / C.C PRIORITY SELECTION





Power St.



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

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

V-I Characteristic of Diode

Operation Under C.V Priority and C.C Priority Respectively

The PSW-Series provides C.C Mode and C.V 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 to meet the specific requirements. The C.C and C.V Priority Selection enable the power supply to run under C.C priority, rather than normal CV priority, at the output-on stage.

#### C. ADJUSTABLE SLEW RATE

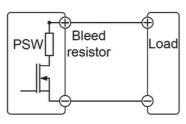


The Adjustable Rise Time of the PSW 30V

The Adjustable Rise Time of the PSW 800V

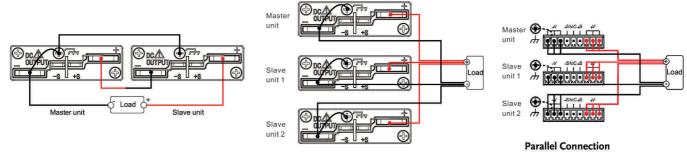
The PSW-Series has adjustable slew rates for the level transition of both Current and Voltage. This gives the PSW-Series power supply the ability to set specific rise time and fall time of the Voltage and Current drawn from the power supply to verify DUT performance during the Voltage / Current level 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-current-drawn devices like capacitors.

#### D. BLEEDER CONTROL



PSW-Series Built-in Bleed Resistor

The PSW-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.



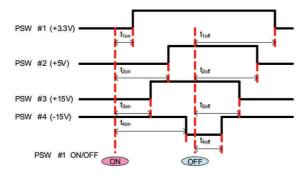
**Series Connection** 

**Parallel Connection** 

PSW 250V/800V only support parallel connections and maximum units in parallel is three.

To increase power output capacity, the PSW-Series could be connected in Series mode to perform double voltage rating or in parallel mode to perform triple current rating for each model. With Multi-Range feature and Series/Parallel connection capability, the PSW-Series is a high power density and cost-effective equipment for the tests of DC power modules, batteries and components in a broad power range.

#### OUTPUT ON /OFF DELAY

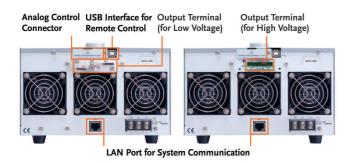


The Example of Output On/Off Delay Control Among Multiple Outputs of the PSW Units

The output On/Off delay feature enables the setting of a specific time delay for output on after the power supply output is turned on, and a specific time delay for output off after the power supply output is turned off. When multiple PSW units are used, the On/Off delay time

of each unit can be set respectively referring to fix time points. This multiple-output control can be done through the Analog Control terminal at the rear panel or through the PC programming with standard commands.

#### VARIOUS INTERFACES SUPPORT & EXTENDED TERMINAL BOX



**Rear Panel for PSW-Series** 

The PSW-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-Series for system communications and ATE applications.



GUG-001 GPIB to USB Adapter

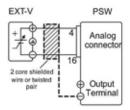


GET-001 Extended Terminal (for PSW 30V/80V/160V)

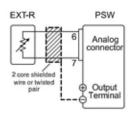


GET-002 Extended Terminal (for PSW 250V/800V)

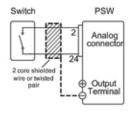
An Extender Terminal box (P/N: GET-001/GET-002) is provided as optional accessory to extend the power output form the rear panel to the front side. This extender terminal gives R&D or QC engineers convenience to do the jobs without frequently reaching the output terminal at the rear side of the PSW-Series.



#### External Voltage Control of the Voltage Output

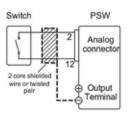


External Resistance control of the Voltage Output

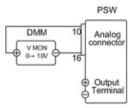


External Switch Control of the Output On/Off

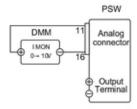
On the rear panel of the PSW-Series power supply, a 26-pin Analog Control connector is available to perform lots of remote control and monitoring functions. The output voltage and current can be set using external voltage or resistance.



External Switch Control of the Main Power Shut-down



External DMM Monitoring of the Output Voltage



External DMM Monitoring of the Output Current

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.

#### **USING THE RACK MOUNT KIT**



Rack Mount Kit GRA-410-J (JIS)

The Rack Mount Kit of the PSW-Series supports both EIA and JIS standards. A standard rack can accommodate 6 units of type I (360W Output Power) models, or 3 units of type II (720W Output Power) models, or 2 units of type III (1080W Output Power) models.



Rack Mount Kit GRA-410-E (EIA)

The Rack Mount Kits for EIA standard (P/N: GRA-410-E) and for JIS standard (P/N: GRA-410-J) are provided as optional accessaries for the PSW-Series.

SPECIFICATIONS	DC)V/ 20 26	DC)V/ 20 30	DC)Y/ 20 302	DC)V/ CO 32 5	DC)V/ 00 07	DC)V/ CO 40 5	DCW/ 160 7.0	DCW 360 34 1	DCW/ 3/0 03 /
	PSW 30-36	PSW 30-72	PSW 30-108	PSW 80-13.5	PSW 80-27	PSW 80-40.5	PSW 160-7.2	PSW 160-14.4	PSW 160-21.6
OUTPUT RATING									
Voltage	0 ~ 30V	0 - 30V	0 ~ 30V	0~80V	0 ~ 80V	0 ~ 80V	0~160V	0~160V	0 ~ 160V
Current Power	0 ~ 36A 360W	0 ~ 72A 720W	0 ~ 108A 1080W	0 ~ 13.5A 360W	0 ~ 27A 720W	0 ~ 40.5A 1080W	0 ~ 7.2A 360W	0 ~ 14.4A 720W	0 ~ 21.6A 1080W
REGULATION(CV)	360W	720W	1080W	300W	720W	1000W	300W	720W	1000W
Load	20mV	20mV	20mV	45-41/	45mV	45mV	85mV	95\	85mV
Line	18mV	18mV	18mV	45mV 43mV	43mV	43mV	83mV	85mV 83mV	83mV
REGULATION(CC)									
Load	41mA	77mA	113mA	18.5mA	32mA	45.5mA	12.2mA	19.4mA	26.6mA
Line	41mA	77mA	113mA	18.5mA	32mA	45.5mA	12.2mA	19.4mA	26.6mA
RIPPLE & NOISE (N CV p-p		80mV	100mV	60mV	80mV	100mV	60mV	80mV	100mV
CV p-p	60mV 7mV	11mV	14mV	7mV	11mV	14mV	12mV	15mV	20mV
CC rms	72mA	144mA	216mA	27mA	54mA	81mA	15mA	30mA	45mA
PROGRAMMING AC	CURACY								
Voltage	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +100mV	0.1% +100mV	0.1% +100m
Current	0.1% + 30mA	0.1% + 60mA	0.1% + 100mA	0.1% + 10mA	0.1% + 30mA	0.1% + 40mA		0.1% +15mA	0.1% +20mA
MEASUREMENT AC	CURACY								
Voltage	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1% +100mV	0.1% +100mV	0.1% +100m
Current	0.1% +30mA	0.1% +60mA	0.1% +100mA	0.1% +10mA	0.1% +30mA	0.1% +40mA	0.1% +5mA	0.1% +15mA	0.1% +20mA
RESPONSE TIME									
Raise Time Fall Time(Full Load) Fall Time(No Load) Load Transient Recover Time (Load change from	50ms 50ms 500ms 1ms	50ms 50ms 500ms 1ms	50ms 50ms 500ms 1ms	50ms 50ms 500ms 1ms	50ms 50ms 500ms 1ms	50ms 50ms 500ms 1ms	100ms 100ms 1000ms 2ms	100ms 100ms 1000ms 2ms	100ms 100ms 1000ms 2ms
50~100%)									
PROGRAMMING RE	SOLUTION (By	PC Remote Cont	rol Mode)						
Voltage Current	1mV 1mA	1mV 2mA	1mV 3mA	2mV 1mA	2mV 2mA	2mV 3mA	3mV 1mA	3mV 2mA	3mV 3mA
MEASUREMENT RES				,,,,,	211111	311111		211111	31101
Voltage			,	2mV	2mV	2mV	3mV	3mV	3mV
Current	1mV 1mA	1mV 2mA	1mV 3mA	1mA	2mV 2mA	3mA	1mA	2mA	3mA
SERIES AND PARALI									
Parallel Operation Series Operation	Up to 3 units	including the ma							
PROTECTION FUNC		including the ma	ster unit						
		2 221/	2 2217	0.0017	0 001/	0.004	26 2761	10 1704	26 2764
OVP	3 ~ 33V	3 ~ 33V	3 ~ 33V	8 ~ 88V	8 ~ 88V	8 ~ 88V	16~ 176V	16 ~ 176V	16 ~ 176V
OCP	3.6 ~ 39.6A	5 ~ 79.2A	5 ~ 118.8A	1.35 ~ 14.85A	2.7 ~ 29.7A	4.05 ~ 44.55A	0.72 ~ 7.92A	1.44 ~ 15.84A	2.16 ~ 23.76/
OHP		lecated internal t	emperatures						
FRONT PANEL DISP									
Voltage Current	0.1%±20mV 0.1%±40mA	0.1%±20mV 0.1%±70mA	0.1%±20mV 0.1%±100mA	0.1%±20mV 0.1%±20mA	0.1%±20mV 0.1%±40mA	0.1%±20mV 0.1%±50mA	0.1%±100mV 0.1%±5mA	0.1%±100mV 0.1%±30mA	0.1%±100m 0.1%±30mA
<b>ENVIRONMENT CO</b>	NDITION							•	
Operation Temp Storage Temp Operating Humidity Storage Humidity	90% RH or Le	H; No condensat							
READ BACK TEMP C	OEFFICIENT								
Voltage Current		f rated output vol f rated output cu							
OTHER	zeepping C 0	acca output cu		uc manning					
Analog Control	Yes								
Interface Fan POWER SOURCE	USB/LAN/GP With thermal	PIB(Option) sensing control AC, 47~63Hz, sin	gle phase						
				71.0(0~124/6)	142000-1247-1	214000-1240-0	71.0(0,124/6)	142010-1247-1	214010-1240
DIMENSIONS & WEIGHT	71(W)x124(H) x350(D) mm; Approx. 3kg	142(W)x124(H) x350(D)mm; Approx. 5.3kg	214(W)x124(H) x350(D) mm; Approx. 7.5kg	71 (W)x124(H) x350(D) mm; Approx. 3kg	142(W)x124(H) x350(D) mm; Approx. 5.3kg	214(W)x124(H) x350(D) mm; Approx. 7.5kg	71 (W)x124(H) x350(D) mm; Approx. 3kg	142(W)x124(H) x350(D) mm; Approx. 5.3kg	214(W)x124(H x350(D) mm; Approx. 7.5kg

#### ORDERING INFORMATION

PSW 30-36	(0~30V/0~36A/360W) Multi-Range DC Power Supply
PSW 30-72	(0~30V/0~72A/720W) Multi-Range DC Power Supply
PSW 30-108	(0~30V/0~108A/1080W) Multi-Range DC Power Supply
PSW 80-13.5	(0-80V/0-13.5A/360W) Multi-Range DC Power Supply
PSW 80-27	(0-80V/0-27A/720W) Multi-Range DC Power Supply
PSW 80-40.5	(0-80V/0-40.5A/1080W) Multi-Range DC Power Supply
PSW 160-7.2	(0-160V/0-7.2A/360W) Multi-Range DC Power Supply
PSW 160-14.4	(0~160V/0~14.4A/720W) Multi-Range DC Power Supply
PSW 160-21.6	(0~160V/0~21.6A/1080W) Multi-Range DC Power Supply
PSW 250-4.5	(0-250V/0-4.5A/360W) Multi-Range DC Power Supply
PSW 250-9	(0-250V/0-9A/720W) Multi-Range DC Power Supply
PSW 250-13.5	(0-250V/0-13.5A/1080W) Multi-Range DC Power Supply
PSW 800-1.44 PSW 800-2.88 PSW 800-4.32	(0~800V/0~1.44A/360W) Multi-Range DC Power Supply (0~800V/0~1.44A/360W) Multi-Range DC Power Supply (0~800V/0~4.32A/1080W) Multi-Range DC Power Supply (0~800V/0~4.32A/1080W) Multi-Range DC Power Supply

#### ACCESSORIES

CD-ROM x 1 (Programmable User Manual, User Manual), GTL-123 Test Lead x 1 (for PSW 30V/80V/160V), Power Cord x 1 (Region dependent), GTL-240 USB Cable " L "
Type x 1, PSW-004 Basic Accessories Kit x 1 (for PSW 30V/80V/160V), Includes : M4 Terminal screws and washers x 2, Air Filter x 1, Analog control protection dummy x 1, Analog control lock lever x 1, M8 terminal bolts, nuts and washers x 2, PSW-008 Basic Accessories kit (for PSW 250V/800V)

OPTION	AL ACCESSORIES
PSW-001	Accessory Kit GTL-130 Test lead: 2 x red, 2 x black(for PSW 250V/800V)
PSW-002	Simple IDC Tool 57RG-30B00201 Large Filter(for 720W/1080W)
PSW-003	Contact Removal Tool
PSW-005	Cable for 2 Units of PSW-Series in Series Mode Connection(for PSW 30V/80V/160V)
PSW-006	Cable for 2 Units of PSW-Series in Parallel Mode Connection
PSW-007	Cable for 3 Units of PSW-Series in Parallel Mode Connection
GUG-001	GPIB to USB Adaptor
GRA-410-J	Rack Mount Kit (JIS) GET-001 Extended Terminal (for PSW 30V/80V/160V)
GRA-410-E	Rack Mount Kit (EIA) GET-002 Extended Terminal (for PSW 250V/800V)

	PSW 250-4.5	PSW 250-9	PSW 250-13.5	PSW 800-1.44	PSW 800-2.88	PSW 800-4.32	
OUTPUT RATING	1017 230-4.3	1 3 11 230-5	1011 230-1313	1 011 000 1777	1 5 11 550-2.55	1 3 11 000-4.32	
	0 ~ 250V	0 ~ 250V	0 ~ 250V	0 ~ 800V	0 ~ 800V	0 ~ 800V	
Voltage Current	0~250V 0~4.5A	0~250V 0~9A	0 ~ 230V 0 ~ 13.5A	0~1.44A	0 ~ 2.88A	0 ~ 4.32A	
Power	360W	720W	1080W	360W	720W	1080W	
REGULATION(CV)	300W	720W	1000W	34411	12011	100011	
	130mV	130mV	130mV	405mV	405mV	405mV	
Load Line	130mV 128mV	130mV 128mV	130mV 128mV	405mV 403mV	405mV 403mV	403mV 403mV	
	IZOMIY	IZOHIV	120fffV	4031114	4031114	403mV	
REGULATION(CC)	1	T	T				
Load	9.5mA 9.5mA	14mA	18.5mA 18.5mA	6.44mA 6.44mA	7.88mA 7.88mA	9.32mA 9.32mA	
Line		14mA		0.44MA	7.88MA	9.32mA	
RIPPLE & NOISE (Noise B	1	1		1	1		
CV p-p	80mV	100mV	120mV	150mV	200mV	200mV	
CV rms CC rms	15mV 10mA	15mV 20mA	15mV 30mA	30mV 5mA	30mV 10mA	30mV 15mA	
		ZUMA	JUMA	) mix	IVIIIA	1311174	
PROGRAMMING ACCURA	1	1	T	I	1		
Voltage	0.1%+200mV	0.1%+200mV	0.1%+200mV	0.1%+400mV	0.1%+400mV	0.1%+400mV	
Current	0.1%+5mA	0.1%+10mA	0.1%+15mA	0.1%+2mA	0.1%+4mA	0.1%+6mA	
MEASUREMENT ACCURAC			-		1		
Voltage	0.1%+200mV	0.1%+200mV	0.1%+200mV	0.1%+400mV	0.1%+400mV	0.1%+400mV	
Current	0.1%+5mA	0.1%+10mA	0.1%+15mA	0.1%+2mA	0.1%+4mA	0.1%+6mA	
RESPONSE TIME							
Raise Time	100ms	100ms	100ms	150ms	150ms	150ms	
Fall Time(Full Load)	150ms	150ms	150ms	300ms	300ms	300ms	
Fall Time(No Load)	1200ms	1200ms	1200ms	2000ms	2000ms	2000ms	
Load Transient	2ms	2ms	2ms	2ms	2ms	2ms	
Recover Time	100000		55555				
(Load change from 50-100%)							
PROGRAMMING RESOLUT	ION (By PC Remote Con	trol Mode)					
Voltage	5mV	5mV	5mV	14mV	14mV	14mV	
Current	1mA	1mA	1mA	1mA	1mA	1mA	
MEASUREMENT RESOLUT	ION (By PC Remote Con	trol Mode)			,	,	
Voltage	SmV	5mV	5mV	14mV	14mV	14mV	
Current	1mA	1mA	1mA	1mA	1mA	1mA	
SERIES AND PARALLEL CA	PABILITY						
Parallel Operation	3	3	3	3	3	3	
Series Operation	N/A	N/A	N/A	N/A	N/A	N/A	
PROTECTION FUNCTION		1	_				
OVP	20 ~ 275V	20 ~ 275V	20 ~ 275V	20 ~ 880V	20 ~ 880V	20 ~ 880V	
OCP	0.45 ~ 4.95A	0.9 ~ 9.9A	1.35 ~ 14.85A	0.144 ~ 1.584A	0.288 ~ 3.168A	0.432 ~ 4.752	
OHP	Activated by elecate	d internal temperatur	es			V	
FRONT PANEL DISPLAY AC							
Voltage	0.1%±200mV	0.1%±200mV	0.1%±200mV	0.1%±400mV	0.1%±400mV	0.1%±400mV	
Current	0.1%±5mA	0.1%±10mA	0.1%±20mA	0.1%±2mA	0.1%±4mA	0.1%±400mV	
ENVIRONMENT CONDITION							
Operation Temp	0°C ~ 50 °C						
Storage Temp	-25°C ~ 70 °C						
Operating Humidity	20% ~ 85% RH; No	condensation					
Storage Humidity	90% RH or Less; No						
READ BACK TEMP COEFFI	CIENT						
Voltage	100ppm/'C of rated	output voltage : afte	r a 30 minute warm-up				
Current			r a 30 minute warm-up				
OTHER							
Analog Control	Yes	0					
Interface	USB/LAN/GPIB(Op	tion)					
Fan	With thermal sensing control						
POWER SOURCE	85VAC-265VAC, 47-						
DIMENSIONS	71 (W)x124(H)	142(W)x124(H)	214(W)x124(H)	71 (W)x124(H)	142(W)x124(H)	214(W)x124(H	
	L. Challer Falled						
& WEIGHT	x350(D) mm;	x350(D)mm;	x350(D) mm;	x350(D) mm;	x350(D) mm;	x350(D) mm;	

Specifications subject to change without notice. SW-0000GD3BH

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