

PSW-Series

Multi-Range D.C. Power Supply

FEATURES

- Voltage Rating : 30V/40V/80V/160V/250V/800V, Output Power Rating : 360W~1080W
- Multi-range Voltage & Current Combinations in One Power Supply
- C.V/C.C Priority ; Particularly Suitable for the Battery and LED Industry
- Adjustable Slew Rate
- Series Operation (2 units in Series) for (30V/40V/80V/160V), Parallel Operation (3 units in Parallel) for (30V/40V/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, RS232-USB Cable
- LabVIEW Driver



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, 40V, 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 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, 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.

PANEL INTRODUCTION



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 40-27	40V/27A	40V/54A	40V/81A
PSW 40-54	40V/54A	40V/108A	40V/162A
PSW 40-81	40V/81A	40V/162A	40V/243A
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 40-27	40V/27A	80V/27A
PSW 40-54	40V/54A	80V/54A
PSW 40-81	40V/81A	80V/81A
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)

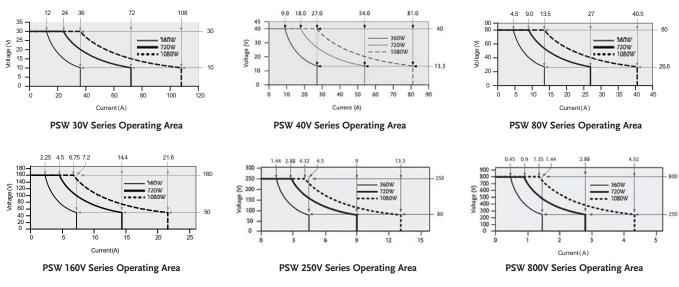


PSW 80-27 (0~80V, 0~27A, 720W)

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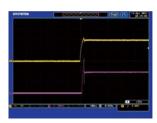
PSW 80-13.5 (0~80V, 0~13.5A, 360W)

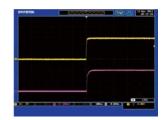
MULTI-RANGE OPERATION



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





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**

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

ADJUSTABLE SLEW RATE

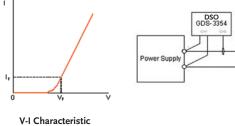


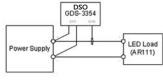
The Adjustable Rise Time of the PSW 30V



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 heavycurrent-drawn devices like capacitors.



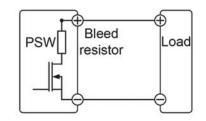




Operation Under C.V Priority and C.C Priority Respectively

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.

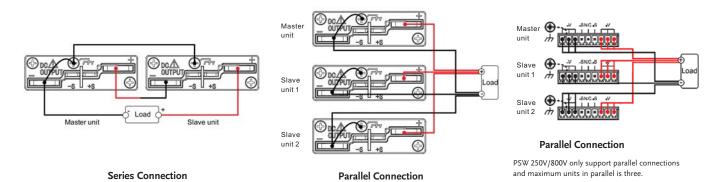
BLEEDER CONTROL D.



PSW-Series Built-in Bleed Resistor

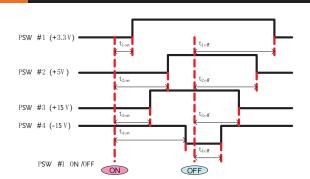
The PSW-Series employs a bleed resistor in parallel with the output terminal. Bleed resistor is designed to dissipatch the power from the power supply filter capacitors when power is turned off and the load is disconnected. Without a bleed resistor, power terminal may remain charged on the filter capacitors 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 AND PARALLEL CONNECTIONS



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

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.

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.

G. **USING THE RACK MOUNT KIT**

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Rack Mount Kit GRA-410-J (JIS)

	3000 Q	3000 360	3000 360 111 ©	3000 Q 160	3000 Q	3000 C	
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Rack Mount Kit GRA-410-E (EIA)

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

н. VARIOUS INTERFACES SUPPORT & EXTENDED TERMINAL BOX



Adapter

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.

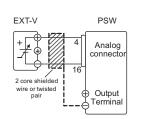
(for PSW 30V/40V/80V/160V)

Extended Terminal (for PSW 250V/800V)

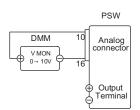
Extended European Terminal (for PSW 30V/40V/80V/160V)

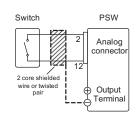
An Extender Terminal box (P/N: GET-001/GET-002/GET-005) is provided as optional accessory to extend the power output form the rear panel to the front side. This extender terminal gives R&D or QC engineers convenience to do the jobs without frequently reaching the output terminal at the rear side of the PSW-Series.

EXTERNAL ANALOG REMOTE CONTROL

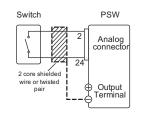


External Voltage Control of the Voltage Output

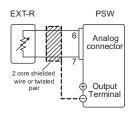




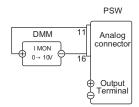
External Switch Control of the Main Power Shut-down



External Switch Control of the Output On/Off



External Resistance control of the Voltage Output



External DMM Monitoring of the Output Current

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.

External DMM Monitoring of the Output Voltage

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.

OPTIONAL ASSESSORIES



SPECIFICATIONS														
OUTPUT RATING	PSW 30-36	PSW 30-72	PSW 30-108	PSW 40-27	PSW 40-54	PSW 40-81	PSW 80-13.5	PSW 80-27	PSW 80-40.5					
Voltage	0 ~ 30V	0 ~ 30V	0 ~ 30V	0 ~ 40V	0 ~ 40V	0 ~ 40V	0 ~ 80V	0 ~ 80V	0 ~ 80V					
Current	0 ~ 36A	0 ~ 72A	0 ~ 108A	0 ~ 27A	0 ~ 54A	0~ 81A	0~13.5A	0 ~ 27A	0 ~ 40.5A					
Power REGULATION(CV)	360W	720W	1080W	360W	720W	1080W	360W	720W	1080W					
Load	20mV	20mV	20mV	25mV	25mV	25mV	45mV	45mV	45mV					
Line	18mV	18mV	18mV	23mV	23mV	23mV	43mV	43mV	43mV					
REGULATION(CC)	41	77	112	224	504	0.6	18 5 4	22	45.5					
Load Line	41mA 41mA	77mA 77mA	113mA 113mA	32mA 32mA	59mA 59mA	86mA 86mA	18.5mA 18.5mA	32mA 32mA	45.5mA 45.5mA					
RIPPLE & NOISE (N	loise Bandwidt	h 20MHz; Ripp	e Bandwidth=1	MHz)				1						
CV p-p CV rms	60mV 7mV	80mV 11mV	100mV 14mV	60mV 7mV	80mV 11mV	100mV 14mV	60mV 7mV	80mV 11mV	100mV 14mV					
CC rms	72mA	144mA	216mA	54mA	108mA	162mA	27mA	54mA	81mA					
PROGRAMMING AC	CURACY				1		1	1	I					
Voltage Current	0.1% +10mV 0.1% + 30mA	0.1% +10mV 0.1% + 60mA	0.1% +10mV 0.1% + 100mA	0.1%+10mV 0.1%+20mA	0.1%+10mV 0.1%+50mA	0.1%+10mV 0.1%+80mA	0.1% +10mV 0.1% + 10mA	0.1% +10mV 0.1% + 30mA	0.1% +10mV 0.1% + 40mA					
MEASUREMENT ACC		0.178 + 0011A	0.178 + 10011A	0.1701201111	0.1701301171	0.170100111/(0.176 1 101101	0.170 + 501171	0.170 1 101171					
Voltage	0.1% +10mV	0.1% +10mV	0.1% +10mV	0.1%+10mV	0.1%+10mV	0.1%+10mV	0.1% +10mV	0.1% +10mV	0.1% +10mV					
Current	0.1% +30mA	0.1% +60mA	0.1% +100mA	0.1%+20mA	0.1%+50mA	0.1%+80mA	0.1% +10mA	0.1% +30mA	0.1% +40mA					
RESPONSE TIME				50	F0	50	50	50	50					
Raise Time Fall Time(Full Load)	50ms 50ms	50ms 50ms	50ms 50ms	50ms 50ms	50ms 50ms	50ms 50ms	50ms 50ms	50ms 50ms	50ms 50ms					
Fall Time (No Load)	500ms	500ms	500ms	500ms	500ms	500ms	500ms	500ms	500ms					
Load Transient Recover Time (Load change from 50~100%)	lms	lms	lms	lms	lms	lms	lms	lms	lms					
PROGRAMMING RE	SOLUTION (By	PC Remote Cont	ol Mode)				I	I	·					
Voltage Current	1mV	1mV	1mV	1mV	1mV	1mV	2mV	2mV	2mV					
MEASUREMENT RES		2mA	3mA	1mA	2mA	3mA	1mA	2mA	3mA					
Voltage	1mV	1mV	1mV	lmV	1mV	1mV	2mV	2mV	2mV					
Current	1mA	2mA	3mA	1mA	2mA	3mA	1mA	2mA	3mA					
SERIES AND PARALL														
Parallel Operation Series Operation		including the ma including the ma												
PROTECTION FUNC														
OVP	3~33∨	3~33V	3~33V	4 ~ 44V	4 ~ 44V	4 ~ 44V	8~88V	8~88V	8~88V					
OCP	3.6~39.6A	5~79.2A	5~118.8A	2.7 ~ 29.7A	5 ~ 59.4A	5 ~ 89.1A	1.35~14.85A	2.7~29.7A	4.05~44.55A					
ОНР	Activated by el	lecated internal t	emperatures											
FRONT PANEL DISP	1	U					1							
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%+30mA	0.1%+20mV 0.1%+60mA	0.1%+20mV 0.1%+80mA	0.1%±20mV 0.1%±20mA	0.1%±20mV 0.1%±40mA	0.1%±20mV 0.1%±50mA					
ENVIRONMENT CO		0.1701701174	0.1701100111/				0.170120111/	0.1701101117	0.1701301117					
Operation Temp	0°C ~ 50°C													
Storage Temp	-25℃ ~ 70℃													
Operating Humidity Storage Humidity		H; No condensat ss; No condensa												
READ BACK TEMP C														
Voltage		rated output vol												
Current	200ppm/℃ of	rated output cu	rent : after a 30	minute warm-up	0									
OTHER Analog Control	Yes													
Interface		IB-USB(Option)/	RS232-USB(Opt	ion)										
Fan	USB/LAN/GPIB-USB(Option)/RS232-USB(Option) With thermal sensing control													
		0					85VAC~265VAC, 47~63Hz, single phase							
POWER SOURCE	85VAC~265VA	.C, 47~63Hz, sing	· ·	71.080-124(11)	142080-124410	214080-124/10	71 () ()	142080-124410	214080-124(11)					
POWER SOURCE	85VAC~265VA 71 (W)x124(H)	.C, 47~63Hz, sing 142(W)x124(H)	214(W)x124(H)	71(W)x124(H) x350(D) mm ;	142(W)x124(H) x350(D) mm ;		71(W)x124(H) x350(D) mm ;	142(W)x124(H) x350(D) mm ;	214(W)x124(H) x350(D) mm;					
POWER SOURCE	85VAC~265VA	.C, 47~63Hz, sing	· ·	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					
POWER SOURCE DIMENSIONS & WEIGHT	85VAC~265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg	C, 47~63Hz, sinş 142(W)x124(H) x350(D)mm ; Approx. 5.3kg	214(W)x124(H) x350(D) mm ;	x350(D) mm ; Approx. 3kg	x350(D) mm ; Approx. 5.3kg	x350(Ď) mm ;	x350(D) mm ;	x350(D) mm;	x350(D) mm;					
POWER SOURCE DIMENSIONS & WEIGHT ORDERING INF	85VAC~265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg	C, 47~63Hz, sing 142(W)x124(H) x350(D)mm ; Approx. 5.3kg	214(W)x124(H) x350(D) mm ; Approx. 7.5kg	x350(D) mm ; Approx. 3kg	x350(Ď) mm ; Approx. 5.3kg SORIES	x350(Ď) mm ; Approx. 7.5kg	x350(D) mm ; Approx. 3kg	x350(D) mm ; Approx. 5.3kg	x350(D) mm ; Approx. 7.5kg					
POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30	85VAC~265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg ••••••••••••••••••••••••••••••••••••	C, 47~63Hz, sinş 142(W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC	214(W)x124(H) x350(D) mm ; Approx. 7.5kg Power Supply	x350(D) mm ; Approx. 3kg ACCESS CD-ROM x 1 (Region depe	x350(D) mm; Approx. 5.3kg SORIES (Programming Manua ndent), GTL-240 USB	x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1,	x350(D) mm ; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces	x350(D) mm; Approx. 5.3kg r PSW 30V/40V/80V/1 sories Kit x 1 (for PSW	x350(Ď) mm ; Approx. 7.5kg 60V), Power Cord x 1 30V/40V/80V/160V),					
POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~30 PSW 30-108 (0~30	85VAC~265VA 71(W)x124(H) x350(D) mm; Approx. 3kg CORMATION VV/0~36A/360W) VV/0~72A/720W) VV/0~108A/1080V	C, 47~63Hz, sinş 142(W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Multi-Range DC W) Multi-Range DC	214(W)x124(H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply C Power Supply	x350(D) mm ; Approx. 3kg CD-ROM x 1 (Region depe Includes : M4	x350(D) mm; Approx. 5.3kg SORIES (Programming Manua ndent), GTL-240 USB	x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt	x350(D) mm ; Approx. 3kg L-123 Test Lead x 1 (for	x350(D) mm; Approx. 5.3kg r PSW 30V/40V/80V/1 sories Kit x 1 (for PSW	x350(D) mm; Approx. 7.5kg 60V), Power Cord x 1 30V/40V/80V/160V),					
POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~30 PSW 30-108 (0~30 PSW 40-27 (0~40	85VAC~265VA 71(W)x124(H) x350(D) mm; Approx. 3kg FORMATION V/0~36A/360W) V/0~72A/720W) V/0~108A/1080V V/0~27A/360W)	C, 47~63Hz, sinş 142(W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC	214(W)x124(H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply Power Supply Power Supply	x350(D) mm; Approx. 3kg CD-ROM x1 (Region dependention of the second sec	x350(D) mm; Approx. 5.3kg SORIES (Programming Manua ndent), GTL-240 USB J Terminal screws and terminal bolts, nuts a sic Accessories kit for	x350(D) mm ; Approx. 7.5kg I, User Manual), GT Gable " L " Type x 1, washers x 2, Air Filt nd washers x 2 PSW 250V/800V mo	x350(D) mm; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control dels PSW-011 Out	x350(D) mm; Approx. 5.3kg PSW 30V/40V/80V/1 sories Kit x 1 (for PSW protection dummy x 1, put terminal cover for	x350(D) mm ; Approx. 7.5kg 60V), Power Cord x 1 30V/40V/80V/160V), Analog control lock 250V/800V models					
POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~40 PSW 40-27 (0~40 PSW 40-54 (0~40	85VAC~265VA 71(W)x124(H) x350(D) mm ; Approx. 3kg FORMATION VV/0~36A/360W) VV/0~72A/720W) VV/0~108A/1080V VV/0~27A/360W) VV/0~54A/720W)	C, 47~63Hz, sinş 142(W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Multi-Range DC W) Multi-Range DC	214(W)x124(H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply Power Supply Power Supply Power Supply	x350(D) mm; Approx. 3kg CD-ROM x11 (Region depe Includes : M4 lever x 1, M8 PSW-008 Bas PSW-009 Out	x350(D) mm; Approx. 5.3kg SORIES (Programming Manua ndent), GTL-240 USB 1 Ferminal screws and terminal bolts, nuts a sic Accessories kit for tput terminal cover for	x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt nd washers x 2 PSW 250V/800V mo 30V/40V/80V/160V m	x350(D) mm; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control dels PSW-011 Out	x350(D) mm; Approx. 5.3kg PSW 30V/40V/80V/1 sories Kit x 1 (for PSW protection dummy x 1, put terminal cover for	x350(D) mm ; Approx. 7.5kg 60V), Power Cord x 1 30V/40V/80V/160V), Analog control lock 250V/800V models					
POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~40 PSW 40-27 (0~40 PSW 40-81 (0~40 PSW 80-13.5 (0~80	85VAC~265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg CORMATION W/0~36A/360W) W/0~72A/720W) W/0~108A/1080W W/0~27A/360W) W/0~54A/720W) W/0~54A/20W) W/0~13.5A/360W	C, 47~63Hz, sinį 142(W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC /) Multi-Range DC /) Multi-Range DC	214(W)x124(H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply	x350(D) mm; Approx. 3kg CD-ROM x1 (Region depe Includes : M4 lever x 1, M8 PSW-008 Bas PSW-009 Out OPTION	x350(D) mm; Approx. 5.3kg SORIES (Programming Manua ndent), GTL-240 USB J Terminal screws and terminal bolts, nuts a sic Accessories kit for tput terminal cover for AL ACCESSOR	x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt nd washers x 2 PSW 250V/800V mo 30V/40V/80V/160V m	x350(D) mm; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control dels PSW-011 Out nodels PSW-012 High	x350(D) mm; Approx. 5.3kg PSW 30V/40V/80V/1 sories Kit x 1 (for PSW protection dummy x 1, put terminal cover for n voltage output termini	x350(D) mm; Approx. 7.5kg 60V), Power Cord x 1 30V/40V/80V/160V), Analog control lock 250V/800V models al for 250V/800V model					
POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0-30 PSW 30-72 (0-30 PSW 30-72 (0-40 PSW 40-27 (0-40 PSW 40-54 (0-40 PSW 40-54 (0-40 PSW 40-54 (0-40 PSW 80-13.5 (0-88 PSW 80-13.5 (0-80	85VAC~265VA 71 (W)x124(H) x350(D) mm; Approx. 3kg ORMATION W/0~36A/360W) W/0~36A/360W) W/0~72A/720W) W/0~108A/1080W W/0~27A/360W W/0~27A/720W)	C, 47~63Hz, sinį 142(W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC ') Multi-Range DC	214(W)x124(H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply	x350(D) mm; Approx. 3kg CD-ROM x11 (Region depe Includes : M4 lever x 1, M8 PSW-008 Baa PSW-009 Ou OPTION PSW-001 Acc PSW-001 Acc	x350(D) mm; Approx. 5.3kg SORIES (Programming Manua indent), GTL-240 USB Terminal screws and terminal screws and terminal screws and terminal cover for ALACCESSOR cessory Kit nple IDC Tool	x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt nd washers x 2 PSW 250V/800V mo 30V/40V/80V/160V m	x350(D) mm ; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Access er x 1, Analog control dels PSW-011 Out hodels PSW-012 High	x350(D) mm; Approx. 5.3kg rPSW 30V/40V/80V/1 sories Kit x 1 (for PSW protection dummy x 1, put terminal cover for n voltage output termin GRA-410-J Rack Mo GRA-410-E Rack Mo	x350(D) mm; Approx. 7.5kg 60V), Power Cord x 1 30V/40V/80V/160V), Analog control lock 250V/800V models al for 250V/800V models unt Kit (JIS) unt Kit (EIA)					
POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0-30 PSW 30-72 (0-30 PSW 30-72 (0-30 PSW 30-72 (0-30 PSW 40-27 (0-40 PSW 40-54 (0-40 PSW 40-51 (0-40 PSW 80-13.5 (0-86 PSW 80-40.5 (0-86 PSW 160-7.2 (0-16	85VAC~265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg CORMATION W/0~36A/360W) W/0~72A/720W) W/0~108A/1080 W/0~27A/360W) W/0~313.5A/360W W/0~27A/720W) W/0~40.5A/1080 00/0~7.2A/360W)	C, 47~63Hz, sinį 142(W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC W) Multi-Range DC	214(W)x124(H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply C Power Supply Power Supply Power Supply	x350(D) mm; Approx. 3kg CD-ROM x 1 (Region depe Includes : M4 lever x 1, M8 PSW-008 Ba: PSW-009 Ou OPTION PSW-001 Acc PSW-003 Co PSW-003 Co	x350(D) mm; Approx. 5.3kg SORIES (Programming Manua ndent), GTL-240 USB I Terminal screws and terminal bolts, nuts a sic Accessories kit for tput terminal cover for AL ACCESSOR Cessory Kit nple IDC Tool ntact Removal Tool be for 2 Units of PSW	x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt d washers x 2 PSW 250V/800V mo 30V/40V/80V/160V m IES Series in Series Mod	x350(D) mm; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control dels PSW-011 Out nodels PSW-012 High	x350(D) mm; Approx. 5.3kg PSW 30V/40V/80V/1 sories Kit x 1 (for PSW protection dummy x 1, put terminal cover for v voltage output termin GRA-410-J Rack Mo	x350(D) mm; Approx. 7.5kg 60V), Power Cord x 1 30V/40V/80V/160V), Analog control lock 250V/800V models al for 250V/800V model unt Kit (JIS) unt Kit (EIA) er (Type II/III)					
POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0-30 PSW 30-72 (0-30 PSW 30-72 (0-30 PSW 30-72 (0-30 PSW 40-27 (0-40 PSW 40-27 (0-40 PSW 40-54 (0-40 PSW 40-54 (0-40 PSW 80-13.5 (0-80 PSW 80-13.5 (0-80 PSW 80-40.5 (0-80 PSW 80-40.5 (0-80 PSW 80-40.5 (0-80 PSW 160-7.2 (0-16 PSW 160-14.4 (0-16	85VAC~265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg CORMATION W/0~36A/360W) W/0~72A/720W) W/0~108A/1080W W/0~27A/360W) W/0~27A/360W) W/0~27A/720W) W/0~40.5A/1080W W/0~27A/720W) W/0~40.5A/1080W W/0~27A/20W) W/0~40.5A/1080W	C, 47~63Hz, sinį 142(W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC W) Multi-Range DC W) Multi-Range DC	214 (W) x124 (H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply	x350(D) mm; Approx. 3kg CD-ROM x11 (Region depe Includes : M4 lever x 1, M8 PSW-008 Baa PSW-009 Ou OPTION PSW-001 Acc PSW-001 Acc PSW-002 Sin PSW-003 Cal PSW-005 Cal	x350(D) mm; Approx. 5.3kg SORIES (Programming Manua indent), GTL-240 USB Terminal screws and terminal screws and terminal screws and terminal cover for ALACCESSOR Costory Kit nple IDC Tool ntact Removal Tool ole for 2 Units of PSW SV(J40V/80V/1	x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt nd washers x 2 PSW 250V/800V mo 30V/40V/80V/160V m IES Series in Series Mod 60V)	x350(D) mm; Approx. 3kg L-123 Test Lead x 1(for PSW-004 Basic Access er x 1, Analog control dels PSW-011 Out todels PSW-012 High de Connection	x350(D) mm; Approx. 5.3kg PSW 30V/40V/80V/1 sories Kit x 1 (for PSW protection dummy x 1, put terminal cover for n voltage output termin: GRA-410-J Rack Mo PSW-010 Large filt	x350(D) mm ; Approx. 7.5kg 60V), Power Cord x 1 30V/40V/80V/160V), Analog control lock 250V/800V models al for 250V/800V models unt Kit (JIS) unt Kit (EIA) er (Type II/III) JSB Adaptor					
POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~40 PSW 40-27 (0~40 PSW 40-27 (0~40 PSW 40-54 (0~40 PSW 40-54 (0~40 PSW 80-13.5 (0~80 PSW 80-13.5 (0~80 PSW 80-40.5 (0~80 PSW 160-7.2 (0~16 PSW 160-21.6 (0~16 PSW 160-21.6 (0~16	85VAC~265VA 71 (W)x124(H) x350(D) mm; Approx. 3kg ORMATION W/0~36A/360W) W/0~72A/720W) W/0~108A/1080W W/0~27A/720W) W/0~13.5A/360W W/0~27A/720W) W/0~27A/720W) W/0~27A/720W) W/0~27A/720W W/0~27A/720W W/0~21.6A/1080' 60V/0~2.6A/360W	C, 47~63Hz, sinį 142(W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Multi-Range DC W) Multi-Range DC	214(W)x124(H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply	x350(D) mm; Approx. 3kg CD-ROM x 1 (Region depe Includes : M4 lever x 1, M8 PSW-008 Baa PSW-009 Ou OPTION PSW-001 Acc PSW-003 Co PSW-003 Co PSW-003 Cal (PSW-005 Cal (PSW-005 Cal (PSW-006 Cal PSW-007 Cal	x350(D) mm; Approx. 5.3kg SORIES (Programming Manua ndent), GTL-240 USB Terminal screws and terminal bolts, nuts a sic Accessories kit for tput terminal cover for AL ACCESSOR cessory Kit nple IDC Tool ntact Removal Tool ple for 2 Units of PSW r PSW 30/407/80/71	x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Tilt d washers x 2 PSW 250V/800V mo 30V/40V/80V/160V m 30V/40V/80V/160V m 1ES Series in Series Mod 60V) -Series in Parallel M -Series in Parallel M	x350(D) mm ; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control dels PSW-011 Out nodels PSW-012 High de Connection lode Connection lode Connection	x350(D) mm; Approx. 5.3kg PSW 30V/40V/80V/1 sories Kit x 1 (for PSW protection dummy x 1, put terminal cover for n voltage output termin. GRA-410-J Rack Mo GRA-410-E Rack Mo GRA-410-E Rack Mo GRA-410-E Rack Mo GRA-410-E Rack Mo	x350(D) mm ; Approx. 7.5kg 60V), Power Cord x 1 30V/40V/80V/160V), Analog control lock 250V/800V models al for 250V/800V models unt Kit (JIS) unt Kit (EIA) er (Type II/III) JSB Adaptor					
POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~40 PSW 40-27 (0~40 PSW 40-27 (0~40 PSW 40-54 (0~40 PSW 40-54 (0~40 PSW 80-13.5 (0~80 PSW 80-13.5 (0~80 PSW 80-13.5 (0~80 PSW 80-13.5 (0~80 PSW 80-40.5 (0~80 PSW 160-7.2 (0~16 PSW 160-14.4 (0~16 PSW 160-14.4 (0~16 PSW 160-14.5 (0~25 PSW 250-4.5 (0~25	85VAC-265VA 71 (W)x124(H) x350(D) mm; Approx. 3kg ORMATION W/0-36A/360W) W/0-36A/360W) W/0-72A/720W) W/0-18A/1080W W/0-27A/360W W/0-27A/360W W/0-27A/360W W/0-21.5A/360W W/0-21.6A/1080 00/0-7.2A/360W W/0-21.6A/1080 00/0-2.2A/360W 00/0-2.2A/360W 00/0-21.6A/1080 00/0-9A/720W)	C, 47~63Hz, sinį 142(W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Multi-Range DC Wilti-Range DC Wilti-Range DC V) Multi-Range DC Wilti-Range DC W) Multi-Range DC	214(W)x124(H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply C Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply	x350(D) mm; Approx. 3kg CD-ROM x 1 (Region depe Includes : M4 lever x 1, M8 PSW-008 Baa PSW-009 Ou OPTION PSW-001 Acc PSW-003 Co PSW-003 Co PSW-005 Cal (CFT-001 Ext CET-002 Ext	x350(D) mm; Approx. 5.3kg (Programming Manua ndent), GTL-240 USB 1 Ferminal screws and terminal bolts, nuts a sic Accessories kit for tput terminal cover for AL ACCESSOR cessory Kit nple IDC Tool ntact Removal Tool lole for 2 Units of PSW 09V/80V/180V/180V/180V/	x350(D) mm;; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt nd washers x 2, Air Filt nd wa	x350(D) mm; Approx. 3kg L-123 Test Lead x 1(for PSW-004 Basic Access er x 1, Analog control dels PSW-011 Out odels PSW-012 High de Connection lode Connection lode Connection NV/40V/80V/160V)	x350(D) mm; Approx. 5.3kg PSW 30V/40V/80V/1 sories Kit x 1 (for PSW protection dummy x 1, put terminal cover for n voltage output termin. GRA-410-J Rack Mo GRA-410-E Rack Mo GRA-410-E Rack Mo GRA-410-E Rack Mo GRA-410-E Rack Mo	x350(D) mm ; Approx. 7.5kg 60V), Power Cord x 1 30V/40V/80V/160V), Analog control lock 250V/800V models al for 250V/800V models unt Kit (JIS) unt Kit (EIA) er (Type II/III) JSB Adaptor					
POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~40 PSW 40-27 (0~40 PSW 40-27 (0~40 PSW 40-54 (0~40 PSW 40-54 (0~40 PSW 80-13.5 (0~80 PSW 80-13.5 (0~80 PSW 80-40.5 (0~80 PSW 160-7.2 (0~16 PSW 160-21.6 (0~16 PSW 160-21.6 (0~16	85VAC-265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg CORMATION 0V/0-36A/360W) 0V/0-72A/720W) 0V/0-27A/360W) 0V/0-27A/360W) 0V/0-31.5A/360W 0V/0-27A/720W) 0V/0-41.5A/360W 00V/0-21.6A/1080 00V/0-21.6A/1080 00V/0-21.6A/1080 00V/0-21.6A/1080 00V/0-3A/720W) 00V/0-13.5A/1080	C, 47~63Hz, sinį 142(W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC W) Multi-Range DC	214 (W) x124 (H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply Deower Supply Dower Supply DC Power Supply	x350(D) mm; Approx. 3kg CD-ROM x11 (Region depe Includes : M4 lever x 1, M8 PSW-008 Bar PSW-009 Bar PSW-000 Col OPTION PSW-001 Act PSW-001 Act PSW-002 Sin PSW-003 Col PSW-005 Cal GET-001 Ext	x350 (D) mm; ; Approx. 5.3kg SORIES (Programming Manua ndent), GTL-240 USB Terminal screws and terminal bolts, nuts a sic Accessories kit for tput terminal cover for AL ACCESSOR cessory Kit nple IDC Tool ntact Removal Tool ple for 2 Units of PSW r PSW of 2 Units of PSW ple for 3 Units of PSW ended Terminal with 1 ended European Term	x350(D) mm; ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt d washers x 2 PSW 250V/800V mo 30V/40V/80V/160V m 30V/40V/80V/160V m 30V/40V/80V/160V m 1ES Series in Series Mod 60V) -Series in Parallel M -Series in Parallel M nax. 30A(for PSW 2 inal with max. 20A	L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control dels PSW-011 Out nodels PSW-012 High ded Connection lode Connection lode Connection lode Connection lode Connection lode Connection lode Connection lode Connection lode Connection lode Connection	x350(D) mm; Approx. 5.3kg PSW 30V/40V/80V/1 sories Kit x1 (for PSW protection dummy x1, put terminal cover for n voltage output termin: GRA-410-J Rack Mo PSW-010 Large filt GUG-001 GPIB to 1 GUR-001A USB to R	x350(D) mm ; Approx. 7.5kg 60V), Power Cord x 1 30V/40V/80V/160V), Analog control lock 250V/800V models al for 250V/800V models unt Kit (JIS) unt Kit (EIA) er (Type II/III) JSB Adaptor					
POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~30 PSW 40-27 (0~40 PSW 40-54 (0~40 PSW 40-51 (0~40 PSW 40-51 (0~40 PSW 40-51 (0~40 PSW 80-13.5 (0~40 PSW 80-13.5 (0~40 PSW 80-13.5 (0~40 PSW 160-7.2 (0~16 PSW 160-7.2 (0~16) PSW 160-7.5 (0~16) PSW 16	85VAC~265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg CORMATION W/0~36A/360W) W/0~72A/720W) W/0~108A/1080W W/0~27A/720W) W/0~27A/720W) W/0~27A/720W) W/0~27A/720W) W/0~27A/720W) W/0~27A/720W) W/0~27A/720W 00/0~2.8A/720W 00/0~13.5A/1080 00/0~4.3.5A/1080 00/0~2.3.5A/1080 00/0~2.88A/720	C, 47~63Hz, sinį 142(W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Multi-Range DC Multi-Range DC Multi-Range DC /) Multi-Range DC /) Multi-Range DC /) Multi-Range DC W) Multi-Range DC W) Multi-Range DC W) Multi-Range DC W) Multi-Range DC Multi-Range DC Multi-Range DC W) Multi-Range DC Multi-Range DC W) Multi-Range DC Multi-Range DC	214(W)x124(H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply Dower Supply DC Power Supply DC Power Supply DC Power Supply DC Power Supply DC Power Supply DC Power Supply	x350(D) mm; Approx. 3kg CD-ROM x1, (Region depe Includes : M4 lever x 1, M8 PSW-008 Bas PSW-009 Ou OPTION PSW-001 Cat PSW-002 Sin PSW-005 Cat PSW-005	x350(D) mm; ; Approx. 5.3kg (Programming Manua ndent), GTL-240 USB 1 Ferminal screws and terminal bolts, nuts a sic Accessories kit for tput terminal cover for AL ACCESSOR cessory Kit nple IDC Tool ntact Removal Tool ole for 2 Units of PSW pSW 301/400/80/1 oble for 3 Units of PSW ended Terminal with n ended Terminal with	x350(D) mm; ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt nd washers x 2 PSW 250V/800V mo 30V/40V/80V/160V m 30V/40V/80V/160V m 30V/40V/80V/160V m 1ES Series in Series More 60V) -Series in Parallel M -Series in Parallel M max. 10A(for PSW 2 inal with max. 20A ck(for PSW 250V/80 (ded, 2000mm	L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control dels PSW-011 Out nodels PSW-012 High ded Connection lode Connection lode Connection lode Connection lode Connection lode Connection lode Connection lode Connection lode Connection lode Connection	x350(D) mm; Approx. 5.3kg PSW 30V/40V/80V/1 sories Kit x1 (for PSW protection dummy x1, put terminal cover for n voltage output termin: GRA-410-J Rack Mo PSW-010 Large filt GUG-001 GPIB to 1 GUR-001A USB to R	x350(D) mm ; Approx. 7.5kg 60V), Power Cord x 1 30V/40V/80V/160V), Analog control lock 250V/800V models al for 250V/800V model unt Kit (JIS) unt Kit (EIA) er (Type II/III) JSB Adaptor					

Voltage Current 0160V 072A 0160V 016AA 0260V 026A 0280V 0180A 0280V 0180A 0280V 0180A 080V 0180A 080V 0180A Power 360W 720W 130mV 130mV 130mV 130mV 130mV 430mV	SPECIFICATIONS									
Voltage Current 0160V 072A 0160V 014A 0160V 016A 0260V 020C 020V 013AA 080V 013AA 080V 013AA Power Source 300W 720W 1080W 1080W 014AA 080V 013AA 080V 013AA RECULATION(C) Line 35mV 85mV 130mV 130mV 130mV 130mV 130mV 405mV		PSW 160-7.2	PSW 160-14.4	PSW 160-21.6	PSW 250-4.5	PSW 250-9	PSW 250-13.5	PSW 800-1.44	PSW 800-2.88	PSW 800-4.32
Current sorow 0.−.7,2,A 0.00W 0.−.1,1,A 0.00W 0.0−.1,3,A 0.00W 0.−.1,3,A 0.00W 0.−.1,3,A 0.00W 0.0−.1,3,A 0.00W 0.00W 0.0W	OUTPUT RATING									
Soow Soov Topove Topove <thtopove< th=""> <thtopove< th=""></thtopove<></thtopove<>	Voltage	0 ~ 160V	0~160V	0~160V		0~250V	0~250V			
EFEGUATION(CV) John John <thjohn< th=""> John John</thjohn<>	Current									
Land BSmV BSmV <th< td=""><td></td><td>360W</td><td>720W</td><td>1080W</td><td>360W</td><td>720W</td><td>1080W</td><td>360W</td><td>720W</td><td>1080W</td></th<>		360W	720W	1080W	360W	720W	1080W	360W	720W	1080W
Line Sim Sim </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td>							1			
REGULATION(CC) 12.2mA 19.4mA 26.6mA 9.5mA 14mA 18.5mA 6.44mA 7.88mA 9.32mA Line 12.2mA 19.4mA 26.6mA 9.5mA 14mA 18.5mA 6.44mA 7.88mA 9.32mA RUPLE & NOISE (Noise Bandwidth- SOMHz; Ripple Bandwidth- SOMHZ;										
Load 12.2mA 19.4mA 25.6mA 9.5mA 14mA 18.5mA 6.4mA 7.88mA 9.32mA RIPDLE AVDIE (Voice Bandwidth) 200mV 100mV 10		031114	851114	031110	1201110	120111	120111	4031110	403111	403111
Line 12.mA 19.mA 26.mA 9.5mA 14mA 18.5mA 6.4mA 7.8mA 9.2mA RIPLE & ADGE Noise Bandwitch 200mV 30mV 20mV 30mV		12.2mA	10.4m	26.6m	9.5mA	14mA	18.5mA	6.44mA	7.88mA	0.32mA
Dipple B. AUGE (Noise Bandwidth 20MH-9; Ripple Bandwidth - MH-9; Domy 120mV 130mV 20mV 20m										
CV pp cms 60mV 12mV 80mV 30mA 100mV 20mV 80mV 15mV 100mV 15mV 100mV 20mA 100mV 20mA 100mV 30mA 200mV 30mA 200mV 200mV 30mA 200mV 200mV 30mA 200mV 200mV 30mA 200mV					1MHz)					I
CV mis 12 mV 15 mV 20 mV 15 mV 15 mV 15 mV 15 mV 30 mV <t< td=""><td></td><td></td><td>1</td><td></td><td>1</td><td>100mV</td><td>120mV</td><td>150mV</td><td>200mV</td><td>200mV</td></t<>			1		1	100mV	120mV	150mV	200mV	200mV
PROGRAMMING ACCURACY Disk Disk <thdisk< th=""> Disk Disk<!--</td--><td>CV rms</td><td></td><td></td><td>20mV</td><td></td><td></td><td></td><td></td><td></td><td></td></thdisk<>	CV rms			20mV						
Voltage 0.3% + 100mV 0.1% + 100mV 0.3% + 200mV 0.3% + 400mV	CC rms	15mA	30mA	45mA	10mA	20mA	30mA	5mA	10mA	15mA
Current 0.1% + 15mA 0.1% + 20mA <	PROGRAMMING AC	CURACY	1				1			
MEASUREMENT ACCURACY Normal Control Normal Contro Normal Control No	Voltage									
Voltage 0.1% + 100mV 0.1% + 100mV 0.1% + 100mV 0.1% + 200mV	Current	0.1% + 5mA	0.1% +15mA	0.1% +20mA	0.1%+5mA	0.1%+10mA	0.1%+15mA	0.1%+2mA	0.1%+4mA	0.1%+6mA
Current 0.1% + SmA	MEASUREMENT ACC	1	1							
RESPONSE TIME Note that we down with some we down we d	Voltage									
Raise Time Fall Time[Full Load) 100ms 100ms 100ms 200ms 200ms 200ms 200ms 200ms 200ms		0.1% +5mA	0.1% +15mA	0.1% +20mA	0.1%+5mA	0.1%+10mA	0.1%+15mA	0.1%+2mA	0.1%+4mA	0.1%+6mA
Alase Till Indum	RESPONSE TIME				1					
Tail Time (ND Load) Load Tailsine (ND Load) Card Tail Time (ND Load) Time	Raise Time									
and match the lower Target For Sol 2 ms 2 ms <td>Fall Time(Full Load)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Fall Time(Full Load)									
No. No. <td></td>										
PROCRAMMING RESOLUTION (By PC Remote Control Mode) 3mV 3mV 3mV 3mV 5mV 5mV 5mV 1mA 1m		Zms	Zms	zms	2005	2005	2005	21115	21115	21115
Voltage Current3mV ImA3mV 3mA3mV 3mA5mV ImA5mV ImA5mV ImA1mA14mV ImA	, _ ,		PC Remote Cont	rol Mode)						
Current ImA 2mA 3mA ImA				/	5mV	5mV	5mV	14mV	14mV	14mV
Voltage Current 3mV ImA 3mV 3mA 3mV 3mA SmV ImA SmV ImA SmV ImA SmV ImA ImA	Current									
Voltage Current 3mV ImA 3mV 3mA 3mV 3mA SmV ImA SmV ImA SmV ImA SmV ImA ImA	MEASUREMENT RES	SOLUTION (By	PC Remote Cont	rol Mode)	1					
Current ImA					5mV	5mV	5mV	14mV	14mV	14mV
Parallel Operation Series Operation Up to 3 units including the master unit Up to 2 units including the master unit 3 N/A N/A	Current									
Series Operation Up to 2 units including the master unit N/A D D D <td>SERIES AND PARALL</td> <td>EL CAPABILITY</td> <td></td> <td></td> <td>1</td> <td></td> <td>1</td> <td></td> <td></td> <td><u>.</u></td>	SERIES AND PARALL	EL CAPABILITY			1		1			<u>.</u>
Series Operation Up to 2 units including the master unit N/A D Deschadde Deschadde	Parallel Operation	Up to 3 units	including the ma	ister unit	3	3	3	3	3	3
PROTECTION FUNCTION 0 1 0 1 1 0 1	•		•							
OVP OCP 16-176V 0.72-7.92A 16-176V 1.44-15.84A 16-176V 2.16-23.76A 20-275V 0.45-4.95A 20-275V 0.9-9.9A 20-280V 1.35-14.85A 20-880V 0.144-1.584A 20-880V 0.288-3.168A 20-880V 0.432-4.752 OHP Activated by elecated internal temperatures Internal temperatures 0.152 0.144-1.584A 0.144-1.584A 0.144-1.584A 0.288-3.168A 0.432-4.752 Voltage Current 0.1%±100mV 0.1%±5mA 0.1%±100mV 0.1%±30mA 0.1%±200mV 0.1%±30mA 0.1%±200mV 0.1%±20mV 0.1%±400mV 0.1%±400mV 0.1%±400mV 0.1%±400mV 0.1%±400mV 0.1%±400mV 0.1%±400mV 0.1%±40mA 0.1%±400mV 0.1%±40mA 0.1%±40mA 0.1%±40mA 0.1%±40mA 0.1%±40mA 0.1%±40mA 0.1%±40	-	•	8		,	,	,	,	,	,
OCP 0.72–7.92A 1.44–15.84A 2.16–23.76A 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 elecated internal temperatures EVENT 0.135–14.85A 0.144–1.584A 0.288–3.168A 0.432–4.752 PONT PANEL DISPLAY ACCURACY, 4 digits Voltage 0.1%±100mV 0.1%±100mV 0.1%±100mV 0.1%±200mV 0.1%±200mV 0.1%±400mV 0.1%±40mX 0.1%±40mX 0.1%±40mX 0.1%±40mX 0.1%±40mX 0.1%±40mX 0.1%±40m			16 1761	16 1761	00.0751/	00.0751/	00.0751/			
OHP Activated by elecated internal temperatures Other Mathematics Other Mathematic										
Treating of cleared memory during the period of perio					0.45~4.95A	0.9~9.9A	1.35~14.85A	0.144~1.584A	0.288~3.168A	0.432~4.752
Voltage Current 0.1%±100mV 0.1%±5mA 0.1%±100mV 0.1%±30mA 0.1%±100mV 0.1%±30mA 0.1%±200mV 0.1%±5mA 0.1%±200mV 0.1%±20mA 0.1%±400mV 0.1%±20mA 0.1%±400mV 0.1%±2mA 0.1%±400mV 0.1%±4mA 0.1%±400mV 0.1%±6mA ENVIRONMENT CONDITION 0.1%±5mA 0.1%±30mA 0.1%±30mA 0.1%±5mA 0.1%±200mV 0.1%±200mV 0.1%±400mV 0.1%±40mV	-	,		emperatures						
Current 0.1%±3mA 0.1%±30mA 0.1%±30mA 0.1%±5mA 0.1%±10mA 0.1%±20mA 0.1%±2mA 0.1%±4mA 0.1%±6mA ENVIRONMENT CO-DITION O°C ~ 50°C					I	E Contraction of the second seco	I		E Contraction of the second seco	[
Environment Onordential Onordential Onordential ENVIRONMENT CONDITION Operation Temp 0°C ~ 50°C Storage Temp 0°C ~ 70°C Operating Humidity 20% ~ 85% RH; No condensation 90% RH or Less; No condensation READ BACK TEMP COEFFICIENT Voltage 100ppm/°C of rated output voltage : after a 30 minute warm-up 200ppm/°C of rated output current : after a 30 minute warm-up OTHER Analog Control Interface BS/LAN/GPIB-USB(Option)/RS232-USB(Option) Fan With thermal sensing control POWER SOURCE BSVAC~265VAC, 47-63Hz, single phase DIMENSIONS 71(W)x124(H) 142(W)x124(H) x350(D) mm;	Voltage									0.1%±400mV
Operation Temp Storage Temp Operating Humidity 0° C ~ 50°C -25°C ~ 70°C 20% ~ 85% RH; No condensation 90% RH or Less; No condensationREAD BACK TEMP COEFFICIENT Voltage Current100ppm/°C of rated output voltage : after a 30 minute warm-up 200ppm/°C of rated output current : after a 30 minute warm-upVoltage Current100ppm/°C of rated output voltage : after a 30 minute warm-up 200ppm/°C of rated output current : after a 30 minute warm-upOTHER Analog Control Interface Fan POWER SOURCEYes USB/LAN/GPIB-USB(Option)/RS232-USB(Option) RS232-USB(Option) RSVAC~265VAC, 47-63Hz, single phaseDIMENSIONS & WEIGHT71(W)x124(H) x350(D) mm;142(W)x124(H) x350(D) mm;71(W)x124(H) x350(D) mm;142(W)x124(H) x350(D) mm;214(W)x124(H) x350(D) mm;214(W)x124(H) x35	Current	0.1%±5mA	0.1%±30mA	0.1%±30mA	0.1%±5mA	0.1%±10mA	0.1%±20mA	0.1%±2mA	0.1%±4mA	0.1%±6mA
Storage Temp Operating Humidity Storage Humidity -25°C ~ 70°C 20% ~ 85% RH; No condensation 90% RH or Less; No condensation READ BACK TEMP COEFFICIENT 90% RH or Less; No condensation Voltage 100ppm/°C of rated output voltage : after a 30 minute warm-up 200ppm/°C of rated output current : after a 30 minute warm-up OTHER Analog Control Interface Yes USB/LAN/GPIB-USB (Option)/RS232-USB (Option) POWER SOURCE 85VAC~265VAC, 47-63Hz, single phase DIMENSIONS & WEIGHT 71(W)x124(H) x350(D) mm; 142(W)x124(H) x350(D) mm; 71(W)x124(H) x350(D) mm; 142(W)x124(H) x350(D) mm; 142(W)x124(H) x350(D) mm; 214(W)x124(H) x350(D) mm; 214(W)x	ENVIRONMENT CO	NDITION								
Operating Humidity Storage Humidity Storage Humidity 20% ~ 85% RH; No condensation 90% RH or Less; No condensation READ BACK TEMP COEFFICIENT Image: Control storage Humidity 200ppm/°C of rated output voltage : after a 30 minute warm-up 200ppm/°C of rated output current : after a 30 minute warm-up OTHER Image: Control storage Humidity 2058/LAN/GPIB-USB (Option)/RS232-USB (Option) Fan With thermal sensing control 85VAC~265VAC, 47-63Hz, single phase DIMENSIONS & WEIGHT 71(W)x124(H) x350(D) mm; 142(W)x124(H) x350(D) mm; 71(W)x124(H) x350(D) mm; 142(W)x124(H) x350(D) mm; 142(W)x124(H) x350(D) mm; 214(W)x124(H) x350(D) m	Operation Temp	0°C ~ 50°C								
Storage Humidity 90% RH or Less; No condensation READ BACK TEMP COEFFICIENT Voltage 100ppm/°C of rated output voltage : after a 30 minute warm-up Current 200ppm/°C of rated output current : after a 30 minute warm-up OTHER Analog Control Yes Interface USB/LAN/GPIB-USB(Option)/RS232-USB(Option) Fan With thermal sensing control POWER SOURCE 85VAC~265VAC, 47~63Hz, single phase DIMENSIONS 71(W)x124(H) 142(W)x124(H) 71(W)x124(H) 142(W)x124(H) 214(W)x124(H)										
READ BACK TEMP COEFFICIENT Voltage 100ppm/°C of rated output voltage : after a 30 minute warm-up Current 200ppm/°C of rated output current : after a 30 minute warm-up OTHER Analog Control Yes Interface USB/LAN/GPIB-USB(Option)/RS232-USB(Option) Fan With thermal sensing control POWER SOURCE 85VAC~265VAC, 47~63Hz, single phase DIMENSIONS 71(W)x124(H) 142(W)x124(H) 71(W)x124(H) 142(W)x124(H) 214(W)x124(H)	1 0 /									
Voltage Current 100ppm/℃ of rated output voltage : after a 30 minute warm-up 200ppm/℃ of rated output current : after a 30 minute warm-up OTHER Analog Control Interface Yes USB/LAN/GPIB-USB(Option)/RS232-USB(Option) Fan POWER SOURCE With thermal sensing control 85VAC~265VAC, 47~63Hz, single phase DIMENSIONS & WEIGHT 71(W)x124(H) x350(D) mm; 142(W)x124(H) x350(D) mm; 71(W)x124(H) x350(D) mm; 142(W)x124(H) x350(D) mm; 142(W)x124(H) x350(D) mm; 214(W)x124(H) x350(D) mm;			ss; No condensa	tion						
Current 200ppm/℃ of rated output current : after a 30 minute warm-up OTHER Analog Control Interface Yes Binterface USB/LAN/GPIB-USB(Option)/RS232-USB(Option) V Fan With thermal sensing control 85VAC~265VAC, 47–63Hz, single phase V DIMENSIONS 71(W)x124(H) 142(W)x124(H) 71(W)x124(H) 142(W)x124(H) 214(W)x124(H) 214(W)x124(H)<	READ BACK TEMP C	OEFFICIENT								
OTHER Analog Control Yes Interface USB/LAN/GPIB-USB(Option)/RS232-USB(Option) Fan With thermal sensing control POWER SOURCE 85VAC~265VAC, 47~63Hz, single phase DIMENSIONS 71(W)x124(H) 142(W)x124(H) 71(W)x124(H) 142(W)x124(H) 214(W)x124(H) 214(W)x1										
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Interface USB/LAN/GPIB-USB (Option)/RS232-USB (Option) Fan With thermal sensing control POWER SOURCE 85VAC~265VAC, 47~63Hz, single phase DIMENSIONS 71(W)x124(H) 142(W)x124(H) 71(W)x124(H) 142(W)x124(H) 214(W)x124(H)	-									
Fan POWER SOURCE With thermal sensing control 85VAC~265VAC, 47~63Hz, single phase DIMENSIONS & WEIGHT 71(W)x124(H) 142(W)x124(H) 71(W)x124(H) 142(W)x124(H) 214(W)x124(H)	Analog Control									
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DIMENSIONS 71 (W)x124 (H) 142 (W)x124 (H) 214 (W)x124 (H) 71 (W)x124 (H) 142 (W)x124 (H) 142 (W)x124 (H) 142 (W)x124 (H) 214 (W)x124 (H) </td <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			0							
& WEIGHT x350(D) mm; x350(D) m	POWER SOURCE	85VAC~265VA	C, 47~63Hz, sing	gle phase	1		1			
	DIMENSIONS									214(W)x124(H)
Approx. 3kg Approx. 5.3kg Approx. 7.5kg Approx. 3kg Approx. 5.3kg Approx. 7.5kg Approx. 3kg Approx. 3kg Approx. 7.5kg	& WEIGHT									
		Approx. 3kg	Approx. 5.3kg	Approx. 7.5kg	Approx. 3kg	Approx. 5.3kg	Approx. 7.5kg	Approx. 3kg	Approx. 5.3kg	Approx. 7.5kg

Specifications subject to change without notice. SW-0000GD5BH

