

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



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, 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)







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.

B. C.V / C.C PRIORITY SELECTION





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



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.



of Diode

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.

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 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



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.

USING THE RACK MOUNT KIT G

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3000.0	3000	3000.0	3000.0	3000	3000
3500.0	3500.0	3500.0	3600.0	3600.0	3500.0
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Rack Mount Kit GRA-410-J (JIS)

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		1 a	1 a	La	La	L a	-

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 JIS standard (P/N: GRA-410-J) are provided as optional accessaries for the PSW-Series.

VARIOUS INTERFACES SUPPORT & EXTENDED TERMINAL BOX



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.

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 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

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.

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	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	
OUTPUT RATING										
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	360W	720W	1080W	360W	720W	1080W	360W	720W	1080W	
Load	20mV	20mV	20mV	25mV	25mV	25mV	45mV	45mV	45mV	
Line RECULATION(CC)	18mV	18mV	18mV	23mV	23mV	23mV	43mV	43mV	43mV	
Load	41mA	77mA	113mA	32mA	59mA	86mA	18.5mA	32mA	45.5mA	
Line	41mA	77mA	113mA	32mA	59mA	86mA	18.5mA	32mA	45.5mA	
RIPPLE & NOISE (N	loise Bandwidt	h 20MHz; Rippl	le Bandwidth=1	(Orra)/	80)(100)/	60mm	80mm)/	100mm)/	
CV p-p CV rms	60mV 7mV	80mV 11mV	100mV 14mV	7mV	11mV	14mV	7mV	11mV	14mV	
CC rms	72mA	144mA	216mA	54mA	108mA	162mA	27mA	54mA	81mA	
PROGRAMMING AC	CURACY				I	I	T	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 AC	CURACY	0.1.70 + 001111	01170 1 1001141	•						
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	1	· · · · · · · · · · · · · · · · · · ·					1			
Raise Time	50ms	50ms	50ms	50ms	50ms	50ms	50ms	50ms	50ms	
Fall Time(Full Load)	50ms	50ms	50ms	50ms 500ms	50ms	50ms	50ms	50ms	50ms 500ms	
Load Transient Recover Time	lms	lms	lms	lms	lms	lms	lms	lms	lms	
(Load change from 50~100%)										
PROGRAMMING RE	SOLUTION (By	PC Remote Cont	rol Mode)				1			
Voltage Current	1mV 1mA	1mV 2mA	1mV 3mA	1mV 1mA	1mV 2mA	1mV 3mA	2mV 1mA	2mV 2mA	2mV 3mA	
MEASUREMENT RES	SOLUTION (By	PC Remote Contr	rol Mode)							
Voltage Current	1mV 1mA	lmV 2mA	1mV 3mA	lmV lmA	1mV 2mA	1mV	2mV 1mA	2mV 2mA	2mV 3mA	
SERIES AND PARALI		21107	51171	IIIIA	2014	JIIA			5	
Parallel Operation	Up to 3 units	including the ma	aster unit							
Series Operation	Up to 2 units	including the ma	ster unit							
PROTECTION FUNC	TION						T			
OVP	3~33V	3~33V	3~33V	$4 \sim 44V$	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	
OHP	Activated by e	lecated internal t	emperatures							
FRONT PANEL DISP	LAY ACCURACY	, 4 digits	0.19(+20ma)/	0.19(0.19(0.19(+20)/	0.19(+20mm)/	0.19(0.1% (20m)/	
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	NDITION				I			I		
Operation Temp	0°C ~ 50°C									
Storage Temp	-25℃ ~ 70℃									
Storage Humidity	20% ~ 85% RI 90% RH or Le	H; No condensat	tion							
READ BACK TEMP C	OEFFICIENT									
Voltage	100ppm/℃ of	f rated output vol	ltage : after a 30	minute warm-up)					
Current	200ppm/℃ of	f rated output cu	rrent : after a 30	minute warm-up)					
Analog Control	Vec									
Interface	Yes									
	USB/LAN/GP	IB-USB(Option)/	RS232-USB(Opt	tion)						
Fan	USB/LAN/GP With thermal	IB-USB(Option)/ sensing control	RS232-USB (Opt	tion)						
Fan POWER SOURCE	USB/LAN/GP With thermal 85VAC~265VA	IB-USB(Option)/ sensing control ،C, 47~63Hz, sing	/RS232-USB(Opt gle phase	tion)	Γ					
Fan POWER SOURCE DIMENSIONS	USB/LAN/GP With thermal 85VAC~265VA 71 (W)x124(H) x350(D) mm	IB-USB(Option)/ sensing control (C, 47~63Hz, sing 142(W)x124(H) x350(D)mm	/RS232-USB(Opt gle phase 214(W)x124(H) x350(D) mm :	tion) 71 (W)x124(H) x350(D) mm :	142(W)x124(H) x350(D) mm :	214(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 :	
Fan POWER SOURCE DIMENSIONS & WEIGHT	USB/LAN/GP With thermal 3 85VAC~265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg	IB-USB(Option)/ sensing control (C, 47~63Hz, sing 142(W)x124(H) x350(D)mm ; Approx. 5.3kg	/RS232-USB(Opt gle phase 214(W)x124(H) x350(D) mm ; Approx. 7.5kg	tion) 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	
Fan POWER SOURCE DIMENSIONS & WEIGHT	USB/LAN/GP With thermal : 85VAC~265VA 71(W)x124(H) x350(D) mm ; Approx. 3kg	IB-USB(Option), sensing control (C, 47~63Hz, sin; 142(W)x124(H) x350(D)mm ; Approx. 5.3kg	/RS232-USB(Opt gle phase 214(W)x124(H) x350(D) mm ; Approx. 7.5kg	tion) 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	
Fan POWER SOURCE DIMENSIONS & WEIGHT	USB/LAN/GP With thermal 85VAC~265VA 71(W)x124(H) x350(D) mm ; Approx. 3kg	IB-USB(Option), sensing control (C, 47~63Hz, sin; 142(W)x124(H) x350(D)mm ; Approx. 5.3kg	/RS232-USB(Opt gle phase 214(W)x124(H) x350(D) mm ; Approx. 7.5kg	tion) 71 (W)x124(H) x350(D) mm ; Approx. 3kg ACCES	142(W)x124(H) x350(D) mm ; Approx. 5.3kg SORIES	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	
Fan POWER SOURCE DIMENSIONS & WEIGHT ORDERING INI PSW 30-36 (0~30	USB/LAN/GP With thermal 85VAC~265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg	IB-USB(Option), sensing control (C, 47~63Hz, sinį 142(W)x124(H) x350(D)mm ; Approx. 5.3kg	/RS232-USB(Opt gle phase 214(W)x124(H) x350(D) mm ; Approx. 7.5kg Power Supply	71 (W)x124 (H) x350(D) mm ; Approx. 3kg	142(W)x124(H) x350(D) mm ; Approx. 5.3kg SORIES Programming Manua	214(W)x124(H) x350(D) mm ; Approx. 7.5kg I, User Manual), GT	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	
Fan POWER SOURCE DIMENSIONS & WEIGHT ORDERING INI PSW 30-36 (0~30 PSW 30-72 (0~30	USB/LAN/GP With thermal : 85VAC~265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg CORMATION 0V/0~36A/360W) 0V/0~72A/720W)	IB-USB(Option), sensing control xC, 47~63Hz, sini 142(W)x124(H) x350(D)mm ; Approx. 5.3kg	/RS232-USB (Opt gle phase 214 (W)x124 (H) x350 (D) mm ; Approx. 7.5kg Power Supply Power Supply	tion) 71 (W)x124 (H) x350(D) mm ; Approx. 3kg ACCESS CD-ROM x1((Region dep Includes : M	142(W)x124(H) x350(D) mm ; Approx. 5.3kg SORIES Programming Manua ndent), GTL-240 USB Terminal screws and	214(W)x124(H) x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt	71 (W)x124 (H) x350(D) mm ; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control J	142(W)x124(H) x350(D) mm ; Approx. 5.3kg PSW 30V/40V/80V/1 protection dummy x 1	214(W)x124(H) x350(D) mm ; Approx. 7.5kg	
Fan POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0-30 PSW 30-72 (0-31 PSW 30-108 (0-31 PSW 40-37 (0-44	USB/LAN/GP With thermal : 85VAC~265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg CORMATION 0V/0~36A/360W) 0V/0~72A/720W) 0V/0~72A/720W) 0V/0~108A/10800	IB-USB (Option), sensing control IC, 47~63Hz, sini 142(W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Multi-Range DC X) Multi-Range DC	/RS232-USB (Opt gle phase 214 (W)x124 (H) x350 (D) mm ; Approx. 7.5kg Power Supply Power Supply Power Supply Power Supply Power Supply	tion) 71 (W)x124 (H) x350(D) mm ; Approx. 3kg CD-ROM x 1 (Region depe Includes : M4 lever x 1, M8	142 (W)x124 (H) x350 (D) mm ; Approx. 5.3kg SORIES Programming Manua dent), GTL-240 USB Terminal screws and terminal bolts, nuts ar	214(W)x124(H) x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt nd washers x 2	71 (W) x124 (H) x350(D) mm ; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control p	142 (W) x124 (H) x350(D) mm ; Approx. 5.3kg r PSW 30V/40V/80V/1 sories Kit x 1 (for PSW protection dummy x 1)	214(W)x124(H) x350(D) mm ; Approx. 7.5kg 60V), Power Cord x 1 30V/40V/80V/160V), Analog control lock	
Fan POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~30 PSW 30-108 (0~30 PSW 40-27 (0~40 PSW 40-54 (0~40	USB/LAN/GP With thermal : 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/0-54A/720W1	IB-USB(Option), sensing control (C, 47~63Hz, sinį 142(W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Multi-Range DC W) Multi-Range DC Multi-Range DC Multi-Range DC	/RS232-USB (Opi gle phase 214 (W)x124 (H) x350 (D) mm ; Approx. 7.5kg Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply	T1 (W)x124 (H) x350(D) mm ; Approx. 3kg CD-ROM x1((Region depe Includes : M4 lever x1, M8 PSW-008 Bas pSW-000 6	142 (W)x124 (H) x350 (D) mm ; Approx. 5.3kg SORIES Programming Manua ndent), GTL-240 USB I Terminal screws and terminal bolts, nuts ar sic Accessories kit for	214(W)x124(H) x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt dwashers x 2 PSW 250V/800V mo	71 (W) x124 (H) x350 (D) mm ; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control p dels PSW-011 Out	142 (W)x124 (H) 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	214 (W) x124 (H) x350(D) mm ; Approx. 7.5kg 60V), Power Cord x 1 30V/40V/80V/160V), Analog control lock 250V/800V models	
Fan POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~30 PSW 40-72 (0~40 PSW 40-54 (0~44 PSW 40-54 (0~40	USB/LAN/GP With thermal : 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/0~81A/1080W	IB-USB (Option), sensing control (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	/RS232-USB (Opt gle phase 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	tion) 71 (W)x124(H) x350(D) mm ; Approx. 3kg CD-ROM x1((Region depe Includes : M4 lever x 1, M8 PSW-008 Bas PSW-009 Bas	142 (W)x124 (H) x350 (D) mm ; Approx. 5.3kg SORIES Programming Manua dent), GTL-240 USB I Terminal screws and terminal bolts, nuts ar sic Accessories kit for I tput terminal cover for 1	214(W)x124(H) 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 n	71 (W) x124 (H) x350(D) mm ; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control p dels PSW-011 Out nodels PSW-011 High	142(W)x124(H) 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	214 (W) x124 (H) 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	
Fan POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0-30 PSW 30-72 (0-30 PSW 30-72 (0-31 PSW 30-72 (0-41 PSW 40-54 (0-44 PSW 40-54 (0-44 PSW 40-54 (0-44 PSW 40-53 (0-88 PSW 927 (0-88	USB/LAN/GP With thermal : 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/0~36A/720W) 0V/0~31A/1080W 0V/0~33A/360W	IB-USB (Option), sensing control (C, 47~63Hz, sini 142 (W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Wlti-Range DC Wulti-Range DC Multi-Range DC Multi-Range DC () Multi-Range DC () Multi-Range DC () Multi-Range DC () Multi-Range DC	/RS232-USB (Opt gle phase 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 C Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply	T1 (W)x124 (H) x350(D) mm ; Approx. 3kg CD-ROM x1((Region depe Includes : M4 lever x1, M8 PSW-008 Bas PSW-009 Bas PSW-009 COPTION	142 (W)x124 (H) x350 (D) mm ; Approx. 5.3kg SORIES Programming Manua ndent), CTL-240 USB Perminal screws and terminal bolts, nuts ar sic Accessories kit for 1 tput terminal cover for 1 AL ACCESSOR	214(W)x124(H) 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 n IES	71 (W) x124 (H) x350 (D) mm ; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control p dels PSW-011 Out nodels PSW-012 High	142(W)x124(H) x350(D) mm ; Approx. 5.3kg rPSW 30V/40V/80V/1 sories Kit x1 (for PSW protection dummy x1, put terminal cover for a voltage output termin	214 (W) x124 (H) x350 (D) mm ; Approx. 7.5kg 600), Power Cord x 1 300/400//800/1600), Analog control lock 2500/8000 models al for 2500/8000 models ant Kit (IIS)	
Fan POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~40 PSW 40-54 (0~40 PSW 40-54 (0~40 PSW 40-54 (0~40 PSW 40-54 (0~40 PSW 80-13.5 (0~80 PSW 80-40.5 (0~80 PSW 80-40.5 (0~80	USB/LAN/GP With thermal : 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/0~38A/10800 0V/0~27A/20W) 0V/0~35A/1080	IB-USB (Option), sensing control (C, 47~63Hz, sinį 142 (W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Wilti-Range DC Wilti-Range DC Multi-Range DC Multi-Range DC () Multi-Range DC Multi-Range DC Wilti-Range DC Wilti-Range DC Wilti-Range DC	(RS232-USB (Opt gle phase 214 (W)x124 (H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply Power Supply Power Supply Power Supply C Power Supply C Power Supply C Power Supply C Power Supply Dower Supply Dower Supply C Power Supply	T1 (W)x124 (H) x350(D) mm ; Approx. 3kg CD-ROM x1((Region depe Includes : M4 lever x1, M8 PSW-008 Bas PSW-009 Ou OPTION PSW-001 Acc PSW-001 Acc	142 (W)x124 (H) x350 (D) mm ; Approx. 5.3kg SORIES Programming Manua ndent), CTL-240 USB I Terminal screws and terminal bolts, nuts ar sic Accessories kit for 1 tput terminal cover for 1 AL ACCESSOR ressory Kit nple IDC Tool	214(W)x124(H) 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	71 (W) x124 (H) x350 (D) mm ; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control p dels PSW-011 Out nodels PSW-012 High	142 (W) x124 (H) 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	214 (W) x124 (H) x350 (D) mm ; Approx. 7.5kg 600), Power Cord x 1 300/400//80V/1600), Analog control lock 250V/800V models al for 250V/800V models ant Kit (JIS) ant Kit (EIA)	
Fan POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~30 PSW 40-72 (0~40 PSW 40-54 (0~44 PSW 40-54 (0~44 PSW 40-54 (0~40 PSW 40-54 (0~40 PSW 80-13.5 (0~80 PSW 80-40.5 (0~80 PSW 80-40.5 (0~80 PSW 160-7.2 (0~10	USB/LAN/GP With thermal : 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/0~31A/1080W 0V/0~35A/360W) 0V/0~4.5A/120W) 0V/0~4.5A/1080W	IB-USB (Option), sensing control (C, 47~63Hz, sinį 142 (W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Wilti-Range DC Multi-Range DC Multi-Range DC Multi-Range DC () Multi-Range DC	(RS232-USB (Opt gle phase 214 (W)x124 (H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply	tion) 71 (W)x124 (H) 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 Acc PSW-002 Sin PSW-005 col	142 (W)x124 (H) x350 (D) mm ; Approx. 5.3kg SORIES Programming Manua ndent), CTL-240 USB Perminal screws and terminal bolts, nuts ar sic Accessories kit for 1 tput terminal cover for 3 AL ACCESSOR cessory Kit nple IDC Tool ntact Removal Tool befor 21 Junis of PSW	214(W)x124(H) x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt di washers x 2, Air Filt di washers x 2, PSW 250V/800V mo 30V/40V/80V/160V m IES	71 (W) x124 (H) x350 (D) mm; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control p dels PSW-011 Out nodels PSW-012 High	142 (W) x124 (H) 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 voltage output termin GRA-410-J Rack Mo GRA-410-E Rack Mo PSW-010 Large fill	214 (W) x124 (H) 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 al Kit (JIS) ant Kit (EIA) er (Type II/III) B. Adaeter	
Fan POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0-30 PSW 30-72 (0-30 PSW 30-72 (0-30 PSW 40-72 (0-40 PSW 40-54 (0-44 PSW 40-54 (0-44 PSW 40-54 (0-44 PSW 80-13.5 (0-86 PSW 80-27 (0-86 PSW 80-27 (0-86 PSW 160-7.2 (0-16	USB/LAN/GP With thermal : 85VAC~265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg CORMATION 0V/0~36A/360W) 0V/0~72A/720W) 0V/0~27A/720W) 0V/0~27A/720W) 0V/0~31A/1080W 0V/0~31A/1080W 0V/0~27A/720W) 0V/0~27A/720W) 0V/0~27A/720W) 0V/0~14.4A/720W	IB-USB (Option), sensing control (C, 47~63Hz, sini 142 (W)x124(H) x350(D)mm ; Approx. 5.3kg Multi-Range DC Wilti-Range DC Wilti-Range DC Multi-Range DC Multi-Range DC (V) Multi-Range DC Wilti-Range DC Wilti-Range DC (V) Multi-Range DC Wilti-Range DC (V) Multi-Range DC	/RS232-USB (Opt gle phase 214(W)x124(H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply Power Supply Power Supply Power Supply C Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply	tion) 71 (W)x124 (H) 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 Acc PSW-002 Sin PSW-003 Cat (for	142 (W)x124 (H) x350 (D) mm ; Approx. 5.3kg Programming Manua ndent), CTL-240 USB I Terminal screws and terminal bolts, nuts ar sic Accessories kit for 1 tput terminal cover for 3 AL ACCESSOR cessory Kit nple IDC Tool ntact Removal Tool bef or 2 Units of PSW- PSW 30V/40V/80V/1	214(W)x124(H) x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt nd washers x 2,	71 (W) x124 (H) x350 (D) mm ; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control p dels PSW-011 Out nodels PSW-011 Out addels PSW-012 High	142 (W) x124 (H) 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 voltage output termin GRA-410-F Rack Mo GRA-410-F Rack Mo SW-010 Large filt GUR-001 GPIB to GUR-001 USB to R	214 (W) x124 (H) 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 al for 250V/800V models ant Kit (JIS) ant Kit (EIA) er (Type II/III) JSB Adaptor 5-323 Cable, 300mm	
Fan POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~40 PSW 40-54 (0~44 PSW 40-54 (0~44 PSW 40-54 (0~44 PSW 40-54 (0~40 PSW 80-13.5 (0~80 PSW 80-40.5 (0~80 PSW 80-40.5 (0~16) PSW 160-7.2 (0~16) PSW 160-71.4 (0~16) PSW 160-71.4 (0~16) PSW 160-71.4 (0~16)	USB/LAN/GP With thermal : 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/0~27A/360W) 0V/0~31A/1080W 0V/0~31A/1080W 0V/0~31A/1080W 0V/0~3A/1080W 0V/0~3A/1080W 0V/0~3A/1080W 0V/0~3A/1080W 0V/0~3A/1080W	IB-USB (Option), sensing control (C, 47~63Hz, sin; 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	(RS232-USB (Opt gle phase 214 (W)x124 (H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply C Power Supply C Power Supply C Power Supply	tion) 71 (W)x124 (H) 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 Acc PSW-002 Sin PSW-003 Cat (for))))))))))))))))))))))))))))))))))))	142 (W)x124 (H) x350 (D) mm ; Approx. 5.3 kg SORIES Programming Manua ndent), CTL-240 USB Terminal screws and terminal bolts, nuts ar sic Accessories kit for 1 tput terminal cover for : AL ACCESSOR essory Kit nple IDC Tool ntact Removal Tool bef or 2 Units of PSW- r PSW 30V/40V/80V/1 bef for 3 Units of PSW-	214(W)x124(H) x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt d washers x 2, Air Fi	71 (W) x124 (H) x350(D) mm; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control p dels PSW-011 Out nodels PSW-011 Out dels PSW-012 High de Connection lode Connection	142 (W) x124 (H) 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 voltage output termin GRA-410-J Rack Mo GRA-410-E Rack Mo PSW-010 Large filt GUG-001 GPIB to I GUR-001A USB to R	214 (W) x124 (H) 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 al for 250V/800V models ant Kit (JIS) ant Kit (EIA) er (Type II/III) JSB Adaptor S-232 Cable, 300mm	
Fan POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~30 PSW 30-72 (0~40 PSW 40-54 (0~40 PSW 40-54 (0~40 PSW 40-54 (0~40 PSW 40-54 (0~40 PSW 80-13.5 (0~80 PSW 80-40.5 (0~80 PSW 80-40.5 (0~80 PSW 160-7.2 (0~16 PSW 160-71.4 (0~16 PSW 160-14.4 (0~16 PSW 160-14.4 (0~16 PSW 160-21.6 (0~16) PSW 160-21.6 (0~16) PSW 250-4.5 (0~20)	USB/LAN/GP With thermal : 85VAC~265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg CORMATION 0V/0~36A/360W) 0V/0~72A/720W) 0V/0~27A/720W) 0V/0~27A/360W 0V/0~31A/1080W 0V/0~31A/1080W 0V/0~31A/1080W 0V/0~3A/1080W 0V/0~14.5A/360W 00V/0~14.5A/360W 00V/0~21.6A/360W	IB-USB (Option), sensing control (C, 47~63Hz, sin; 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	/RS232-USB (Opt gle phase 214 (W)x124 (H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply C Power Supply C Power Supply C Power Supply C Power Supply C Power Supply C Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply Power Supply	tion) 71 (W)x124 (H) 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 Acc PSW-002 Sin PSW-005 Cat (for PSW-005 Cat (for PSW-007 Cat CET-001 Ext	142 (W)x124 (H) x350(D) mm ; Approx. 5.3kg SORIES (Programming Manua ndent), GTL-240 USB Terminal screws and terminal bolts, nuts au sic Accessories kit for I tput terminal cover for : AL ACCESSOR Ecessory Kit nple IDC Tool ntact Removal Tool bef for 2 Units of PSW r PSW 30V/40V/80V /1 bef for 3 Units of PSW ended Terminal with n	214(W)x124(H) x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt d washers x 2, Air Fi	71 (W) x124 (H) x350(D) mm ; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control p dels PSW-011 Out nodels PSW-011 Out dels PSW-012 High de Connection lode Connection lode Connection 2V/40V/80V/160V)	142 (W) x124 (H) 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 voltage output termin GRA-410-J Rack Mo GRA-410-E Rack Mo PSW-010 Large filt GUG-001 GPIB to I GUR-001A USB to R	214 (W) x124 (H) 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 al for 250V/800V models ant Kit (JIS) ant Kit (EIA) er (Type II/III) JSB Adaptor S-232 Cable, 300mm	
Fan POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0-30 PSW 30-72 (0-30 PSW 30-72 (0-31 PSW 30-72 (0-41 PSW 40-27 (0-44 PSW 40-27 (0-44 PSW 40-54 (0-44 PSW 40-51 (0-44 PSW 40-51 (0-44 PSW 80-40.5 (0-88 PSW 80-40.5 (0-88 PSW 160-7.2 (0-16 PSW 160-7.2 (0-16 PSW 160-7.16 (0-16 PSW 160-7.16 (0-16 PSW 160-7.16 (0-16 PSW 160-7.16 (0-16 PSW 160-7.16 (0-16 PSW 150-14.4 (0-16 PSW 250-9 (0-22 PSW 250-9 (0-22)	USB/LAN/GP With thermal : 85VAC-265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg CORMATION 0V/0-36A/360W) 0V/0-72A/720W) 0V/0-27A/720W) 0V/0-27A/360W 0V/0-31.5A/360W 0V/0-27A/720W) 0V/0-27A/720W) 0V/0-27A/720W) 0V/0-21.6A/1080 00V/0-1.4A/720W) 50V/0-21.6A/1080 50V/0-4.5A/360W 50V/0-3A/720W)	IB-USB (Option), sensing control (C, 47~63Hz, sin; 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 (Multi-Range DC W) Multi-Range DC (Multi-Range DC) (Multi-Range DC)	/RS232-USB (Opt gle phase 214 (W)x124 (H) x350(D) mm ; Approx. 7.5kg Power Supply Power Supply C Power Supply C Power Supply Power Supply DC Power Supply Power Supply DC Power Supply DC Power Supply DC Power Supply DC Power Supply	T1 (W)x124(H) 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 Acc PSW-005 Cat (for PSW-005 Cat (for PSW-005 Cat (for PSW-007 Cat GET-001 Ext GET-002 Ext GET-005 Fwt	142 (W)x124 (H) x350(D) mm ; Approx. 5.3kg SORIES (Programming Manua ndent), GTL-240 USB Terminal screws and terminal bolts, nuts au sic Accessories kit for I tput terminal cover for : AL ACCESSOR tput terminal cover for : Duts of PSW- ressory Kit nple IDC Tool ntact Removal Tool bef or 2 Units of PSW- rPSW 30V/40V/80V/1 bel for 3 Units of PSW ended Terminal with n ended Euronanal with n ended Euronanal with n	214(W)x124(H) x350(D) mm ; Approx. 7.5kg I, User Manual), GT Cable " L " Type x 1, washers x 2, Air Filt d washers x 2, Air Filt d washers x 2 PSW 250V/800V mo 30V/40V/80V/160V m IES Series in Series Mor 60V) -Series in Parallel M nax. 30A(for PSW 30 max. 10A(for PS	71 (W) x124 (H) x350(D) mm ; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control p dels PSW-011 Out odels PSW-011 Out odels PSW-011 Out ode Connection lode Connection lode Connection b0/40V/80V/160V) 50V/80V/160V)	142 (W) x124 (H) 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 voltage output termin GRA-410-J Rack Mo GRA-410-F RACK MO F	214 (W) x124 (H) 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 al for 250V/800V models ant Kit (JIS) ant Kit (EIA) er (Type II/III) JSB Adaptor S-232 Cable, 300mm	
Fan POWER SOURCE DIMENSIONS & WEIGHT PSW 30-36 (0~30 PSW 30-72 (0~31 PSW 30-72 (0~41 PSW 40-27 (0~44 PSW 40-54 (0~44 PSW 40-54 (0~44 PSW 40-51 (0~44 PSW 40-51 (0~46 PSW 80-13.5 (0~86 PSW 80-40.5 (0~86 PSW 160-7.2 (0~16 PSW 160-7.2 (0~16 PSW 160-7.2 (0~16 PSW 160-7.2 (0~16 PSW 160-7.2 (0~16 PSW 160-7.1 (0~16 PSW 160-7.1 (0~17) PSW 250-4.5 (0~22) PSW 250-13.5 (0~22) PSW 250-13.5 (0~22) PSW 800-2 9 (0~22) PSW 800-2 9 (0~22)	USB/LAN/GP With thermal : 85VAC-265VA 71 (W)x124(H) x350(D) mm ; Approx. 3kg FORMATION 0V/0-36A/360W) 0V/0-72A/720W/ 0V/0-108A/10800 0V/0-27A/360W) 0V/0-27A/360W) 0V/0-27A/360W 0V/0-31.5A/360W 00V/0-1.4A/720W) 00V/0-21.6A/360W 00V/0-1.4A/720W) 50V/0-1.5A/360W 50V/0-1.3.5A/360W 50V/0-1.3.5A/360W	IB-USB (Option), sensing control (C, 47–63Hz, sin; 142(W)x124(H) x350(D)mm; Approx. 5.3kg Multi-Range DC Multi-Range DC Multi-Range DC Wilti-Range DC (V) Multi-Range DC Wilti-Range DC Multi-Range DC Wilti-Range DC	/RS232-USB (Opt gle phase 214 (W)x124 (H) x350 (D) mm ; Approx. 7.5kg Power Supply Power Supply Power Supply C Power Supply Power Supply C Power Supply D C Power Supply	71 (W)x124(H) x350(D) mm; Approx.3kg CD-ROM x1((Region depe Includes :M4 lever x1, M8 PSW-008 Bas PSW-009 Ou OPTION PSW-003 Cor PSW-003 Cor PSW-005 Cat GET-001 Ext GET-005 Ext GTL-130 Tes CTL-134 CP	142 (W)x124 (H) x350(D) mm ; Approx. 5.3kg SORIES Programming Manua ndent), GTL-240 USB Terminal screws and terminal bolts, nuts ar is caccessories kit for 1 to the terminal cover for ALACCESSOR tast Removal Tool ble for 2 Units of PSW- r PSW 30V/40V/80V/1 ble for 3 Units of PSW- r PSW 30V/40V/80V/1 ble for 3 Units of PSW- ended Terminal with r ended European Term t 1 lead : 2 x red, 2 x bla	214 (W)x124 (H) 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 Mor 60V) -Series in Parallel M -Series in Parallel M -Series in Parallel M axa. 30A(for PSW 250V/88 Led 2000m	71 (W)x124 (H) x350(D) mm ; Approx. 3kg L-123 Test Lead x 1 (for PSW-004 Basic Acces er x 1, Analog control µ dels PSW-011 Out odels PSW-012 High de Connection tode Connection tode Connection by/40V/80V/160V) 50V/800V/ (for PSW 30V/40V/80 b0V)	142 (W) x124 (H) 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 h voltage output termin GRA-410-J Rack Mo GRA-410-F Rack MO F Rack MO F Rack M	214 (W) x124 (H) 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 al for 250V/800V models unt Kit (JIS) ant Kit (EIA) er (Type II/II) JSB Adaptor S-232 Cable, 300mm	

SPECIFICATIONS									
	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
OUTPUT RATING									
Voltage	0~160V	0~160V	0~160V	0 ~ 250V	0 ~ 250V	0 ~ 250V	0 ~ 800V	0~800V	0~800V
Current	0 ~ 7.2A	0~14.4A	0~21.6A	0 ~ 4.5A	0 ~ 9A	0~13.5A	0~1.44A	0 ~ 2.88A	0 ~ 4.32A
Power	360W	720W	1080W	360W	720W	1080W	360W	720W	1080W
REGULATION(CV)									
Load	85mV	85mV	85mV	130mV	130mV	130mV	405mV	405mV	405mV
Line	83mV	83mV	83mV	128mV	128mV	128mV	403mV	403mV	403mV
REGULATION(CC)									
Load	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	I4mA	18.5mA	6.44mA	7.88mA	9.32mA
RIPPLE & NOISE (N	oise Bandwidtl	h 20MHz; Ripp	le Bandwidth=	1MHz)					
СV р-р	60mV	80mV	100mV	80mV	100mV	120mV	150mV	200mV	200mV
CV rms	12mV	30mA	45mA	15mV 10mA	15mV 20mA	15mV 30mA	50mV 5mA	10mA	15mA
	CURACY			101101	2011/1	501171			
Voltago	0.1% +100mV	0.1% +100mV	0.1% + 100mV	0.1%+200mV	0.1%+200mV	0.1%+200mV	0.1%+400mV	0.1%+400mV	0.1%+400mV
Current	0.1% + 10011	0.1% +15mA	0.1% +20mA	0.1%+5mA	0.1%+10mA	0.1%+15mA	0.1%+2mA	0.1%+4mA	0.1%+6mA
		01170 1101101	0.17/0 1201181	0.17/0151181	011/01101181	011/01101101			
Voltage	0.1% +100mV	0.1% +100mV	$0.1\% \pm 100mV$	0.1%+200mV	0.1%+200mV	0.1%+200mV	0.1%+400mV	0.1%+400mV	0.1%+400mV
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
RESPONSE TIME		51176 1151101	2.1.70 . 2011/1						
Daiga Time	100ms	100ms	100ms	100ms	100ms	100ms	150ms	150ms	150ms
Kaise Lime	100ms	100ms	100ms	150ms	150ms	150ms	300ms	300ms	300ms
Fall Time(Full Load)	1000ms	1000ms	1000ms	1200ms	1200ms	1200ms	2000ms	2000ms	2000ms
Load Transient Recover Time	2ms	2ms	2ms	2ms	2ms	2ms	2ms	2ms	2ms
(Load change from 50~100%)									
PROGRAMMING RE	SOLUTION (By	PC Remote Cont	rol Mode)						
Voltage	3mV	3mV	3mV	5mV	5mV	5mV	14mV	14mV	14mV
Current	1mA	2mA	3mA	1mA	1mA	1mA	1mA	1mA	1mA
MEASUREMENT RES	OLUTION (By	PC Remote Cont	rol Mode)						
Voltage	3mV	3mV	3mV	5mV	5mV	5mV	14mV	14mV	14mV
Current	1mA	2mA	3mA	ImA	ImA	ImA	Ima	ImA	ImA
SERIES AND PARALL	EL CAPABILITY								
Parallel Operation	Up to 3 units	including the ma	ister unit	3	3	3	3	3	3
Series Operation	Up to 2 units i	ncluding the ma	ster unit	N/A	N/A	N/A	N/A	N/A	N/A
PROTECTION FUNC	TION								
OVP	16~176V	16~176V	16~176V	20~275V	20~275V	20~275V	20~880V	20~880V	20~880V
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 el	ecated internal t	emperatures						
FRONT PANEL DISP	LAY ACCURACY,	4 digits							
Voltage	0.1%±100mV	0.1%±100mV	0.1%±100mV	0.1%±200mV	0.1%±200mV	0.1%±200mV	0.1%±400mV	0.1%±400mV	0.1%±400mV
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
ENVIRONMENT CO	NDITION								
Operation Temp	0°C 50°C								
Storage Temp	-25°C ~ 70°C								
Operating Humidity	20% ~ 85% R⊦	I; No condensat	ion						
Storage Humidity	90% RH or Les	ss; No condensa	tion						
READ BACK TEMP C	DEFFICIENT								
Voltage	100ppm/℃ of	rated output vol	tage : after a 30	minute warm-u	2				
Current	200ppm/℃ of	rated output cur	rent : after a 30	minute warm-u	p				
OTHER									
Analog Control	Yes								
Interface	USB/LAN/GPI	B-USB(Option)/	RS232-USB(Opt	tion)					
Fan	With thermal s	ensing control							
POWER SOURCE	85VAC~265VA	C, 47~63Hz, sing	gle phase			· · · · · ·		1	
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)	71(W)x124(H)	142(W)x124(H)	214(W)x124(H)
& WEIGHT	x350(D) mm ;	x350(D) mm ;	x350(D) mm ;	x350(D) mm ;	x350(D)mm;	x350(D) mm ;	x350(D) mm ;	x350(D) mm ;	x350(D) mm ;
	Approx. 3kg	Approx. 5.3kg	Approx. 7.5kg	Approx. 3kg	Approx. 5.3kg	Approx. 7.5kg	Approx. 3kg	Approx. 5.3kg	Approx. 7.5kg
						Constitution	a auhiant ta ahana		

Specifications subject to change without notice. SW-0000GD5BH



Simply Reliable

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