PROGRAMMABLE SWITCHING D.C. POWER SUPPLY



GW Instek PSU-series power supply with 1U height is highly praised by various markets and it is widely utilized by system integrators. The PSU-series provides 10 models including 6V/200A,12.5V/ 120A, 20V/76A, 40V/38A, 60V/25A, 100V/15A, 150V/10A, 300V/5A, 400V/3.8A, and 600V/2.6A. Via 4 units of the same models in parallel connection, the maximum output current at 6V reaches 800A. It meets the demands of low voltage and high current, and high power density. PSU is suitable for electric components manufacturers to verify withstanding current tests of 100A and above. Such tests include micro-resistor, relay, shunt resistors etc. The high voltage models of the PSU-series, with maximum voltage output of 600V and power output of 1560 watts, not only can fully satisfy the extensive voltage demands of 1U power supply market but also provides system integrators with more flexible system integration.

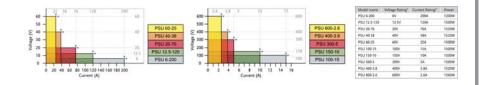
The flexible arrangement of the PSU-series can reduce investment on test equipment facing different voltage and current test regulations. The PSU-series is a single power output DC programmable power supply, which outputs 1200W to 1560W. The PSU-series provides maximum 2 units in series connection (models under 300V) to achieve maximum 600V or 4 units in parallel connection to obtain maximum 800A and the maximum output power of 6.24 kilowatts.

The PSU-series allows settings for CC priority or CV priority. Under CC or CV mode, users can adjust slew rate for output voltage or current based upon test requirements. There are two kinds of slew rate settings: high speed priority and slew rate priority. High speed priority sets slew rate at the maximum speed to reach CC or CV mode. Slew rate priority allows users to set slew rate for CC or CV mode in order to control rise or fall slew rate. Slew rate priority mode is ideal for motor tests because it can protect DUT from being damaged by inrush current occurred at turn-on.

Comparing with other 1U power supplies available in the market, PSU-series supports a most complete array of interfaces, including USB, LAN, RS-232, RS-485, analog control interface, GPIB (option), isolated analog interface (voltage control), and isolated analog interface (current control). Via the multi-drop mode, PSU-series will not need any switch/hub and GPIB cable for remote control and slave unit augmentation when using LAN, USB or GPIB. This feature can help users save costs on equipment.

The PSU-series is ideal for the primary input of DC/DC converter and servo motor production application. PSU-series is often integrated into component test systems such as aging test equipment for capacitors; 600V DC bias applications; aging test equipment for diode; semiconductor production equipment; automotive electronics; and ECU for V8 engine or V12 engine, etc.

The PSU-series provides users with flexible settings of High/Low Level or Trigger input/Trigger output with pulse width of $1 \sim 60$ ms. Trigger input controls PSU-series to output or upload preset voltage, current and memory parameters. While outputting or uploading preset voltage, current and memory parameters PSU-series can produce corresponding Trigger output signals.



1.800.561.8187



PSU-Series

FEATURES

- Voltage Output : 6V/12.5V/20V/40V/60V/ 100V/150V/300V/400V/600V
- Power Output : 1200W ~ 1560W
- C.V/C.C Priority Mode
- Adjustable Voltage/Current Rise and Fall Time
- Series/Parallel Connection : Max. 2 units (Models Under 300V)/4 units of The Same Model
- High Efficiency and High Power Density
- 1U Height and 19"Rack Mount Size
- Three sets of Preset Function
- Bleeder Control Function
- Internal Resistance Function
- Panel Lock Function
- Protection : OVP, OCP, OHP, UVL, AC Fail, FAN Fail
- Standard : USB, LAN, RS-232, RS-485, Analog Control
- Option : GPIB, Isolated Analog Interface (Voltage Control/Current Control)

APPLICATIONS

- The Primary Input of DC/DC Converter
- Servomotor Manufacturing Equipment
- Aging Test Equipment for Capacitors
- Aging Test Equipment for Diodes
- Power Supply for Communications
 Equipment

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PANEL INTRODUCTION



- 1. AC Power Switch (AC Power On/Off)
- 2. USB A Port
- 3. Voltage Knob
- 4. Display Area
- 5. Current Knob
- 6. AC Input (HV:Wire Clamp Connector)
- 7. DC Output Terminal
- 8. USB
- 9. LAN
- 10. RS 485/RS 232
- 11. Analog Control Interface
- 12. Option Slot for (Selection One of Three) GPIB Interface Card/Isolate Voltage Remote Control Card/Isolate Current Remote Control Card
- 13. Remote Sense

MODEL	PSU 6-200	PSU 12.5-120	PSU 20-76	PSU 40-38	PSU 60-25	PSU 100-15	PSU 150-10	PSU 300-5	PSU 400-3.8 F	SU 600-2.6
OUTPUT RATINGS				· I			1			
Rated Output Voltage (*1)	6V	12.5V	20V	40V	60V	100V	150V	300V	400V	600
Rated Output Current (*2)	200A	120A	76A	38A	25A	15A	10A	5A	3.8A	2.64
Rated Output Power	1200W	1500W	1520W	1520W	1500W	1500W	1500W	1500W	1520W	1560W
RIPPLE AND NOISE(*5)							1	I		
CVp-p(10 ~ 20MHz) p-p (*6)	60mV	60mV	60mV	60mV	60mV	80mV	100mV	150mV	200mV	300m\
CVrms(5Hz ~ 1MHz) r.m.s. (*7)	8mV	8mV	8mV	8mV	8mV	8mV	10mV	25mV	40mV	60m\
CCrms(5Hz ~ 1MHz) r.m.s.(*12)	400mA	240mA	152mA	95mA	75mA	45mA	35mA	25mA	17mA	12m/
LOAD REGULATION	1						1			
Voltage(*4)	2.6mV	3.25mV	4mV	6mV	8mV	12mV	17mV	32mV	42mV	62m\
Current(*11)	45mA	29mA	20.2mA	12.6mA	10mA	8mA	7mA	6mA	5,76mA	5,52m/
	1									
Voltage(*3)	2.6mV	3.25mV	4mV	6mV	8mV	12mV	17mV	32mV	42mV	62m\
Current(*3)	22mA	14mA	9.6mA	5.8mA	4.5mA	3.5mA	3mA	2.5mA	2,38mA	2,26m/
ANALOG PROGRAMMING AND MO										
External Voltage Control Output Voltage External Voltage Control Output Current External Resistor Control Output Voltage External Resistor Control Output Current Output Voltage Monitor Output Current Monitor Shutdown Control Output On/Off Control	Accuracy ar Accuracy ar Accuracy ar Accuracy: ± Accuracy: ± Turns the of Possible log		of rated outp of rated outp % of rated ou LOW (0V to 0 urn the output	out current out voltage tput current .5V) or short- t on using a L	.OW (0V to 0					
Alarm Clear Control CV/CC/ALM/PWR ON/OUT ON Indicator Trigger Out Trigger In	(0V to 0.5V) Clear alarm Photocoupl Maximum l) or short-circuit s with a LOW (C er open collecto ow level output ow level input v	V to 0.5V) or or output; Max = 0.8V; minin	short-circuit amum voltag num high leve	el output = 2	V; Maximum	source curre		= 8mA	
CV/CC/ALM/PWR ON/OUT ON Indicator Trigger Out Trigger In FRONT PANEL	(OV to 0.5V) Clear alarm Photocoupl Maximum I Maximum I) or short-circuit s with a LOW (C er open collecto ow level output ow level input v)V to 0.5V) or or output; Max = 0.8V; minim oltage = 0.8V;	short-circuit kimum voltag num high leve minimum hi	el output = 2' gh level inpu	V; Maximum t votage = 2\	source curre /, Maximum :	sink current =		1200
CV/CC/ALM/PWR ON/OUT ON Indicator Trigger Out Trigger In FRONT PANEL Display, 4 digits, Voltage Accuracy 0.1%+	(0V to 0.5V) Clear alarm Photocoupl Maximum I Maximum I) or short-circuit s with a LOW (C er open collecto ow level output ow level input v 25mV	V to 0.5V) or or output; Max = 0.8V; minin oltage = 0.8V; 40mV	short-circuit kimum voltag num high leve minimum hi 80mV	el output = 2' gh level inpu 120mV	V; Maximum t votage = 2 200mV	source curre /, Maximum s 300mV	sink current = 600mV	800mV	1200m\ 7.8m4
CV/CC/ALM/PWR ON/OUT ON Indicator Trigger Out Trigger In FRONT PANEL Display, 4 digits, Voltage Accuracy 0.1%+ Current Accuracy 0.2%+	(0V to 0.5V) Clear alarm Photocoupl Maximum I Maximum I 12mV 600mA) or short-circuit s with a LOW (C er open collecto ow level output ow level input v 25mV 360mA	V to 0.5V) or or output; Max = 0.8V; minin oltage = 0.8V; 40mV 228mA	short-circuit kimum voltag num high leve minimum hi 80mV 114mA	el output = 2' gh level inpu 120mV 75mA	V; Maximum t votage = 2 200mV 45mA	source curre /, Maximum 300mV 30mA	sink current = 600mV 15mA	800mV 11.4mA	1200m ¹ 7.8mA
CV/CC/ALM/PWR ON/OUT ON Indicator Trigger Out Trigger In FRONT PANEL Display, 4 digits, Voltage Accuracy 0.1%+	(0V to 0.5V) Clear alarm Photocoupl Maximum I Maximum I 12mV 600mA GREEN LED) or short-circuit s with a LOW (C er open collecto ow level output ow level input v 25mV	V to 0.5V) or or output; Max = 0.8V; minin oltage = 0.8V; 40mV 228mA VSR, ISR, DL	short-circuit cimum voltag num high leve minimum hi 80mV 114mA Y, RMT, LAN,	el output = 2' gh level inpu 120mV 75mA M1, M2, M3	V; Maximum It votage = 2 200mV 45mA , RUN, Outp	source curre /, Maximum 300mV 30mA ut ON; RED	sink current = 600mV 15mA	800mV 11.4mA	

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MODEL PSU 6-200 PSU 12.5-120 PSU 40-38 PSU 60-25 PSU 100-15 PSU 100-10 PSU 300-5 PSU 4003. TRANSIENT RESPONSE TIME 1.5ms 1.ms 1ms 1ms 1ms 1ms 2ms 2ms 2ms OUTPUT RESPONSE TIME 80ms 80ms 80ms 80ms 80ms 80ms 150ms 150m	250m 250m 250m 250m 250m 200m 2.6m/ 20.4m 0.09m/ 20.4m 20.4m 0.09m/ 5.2m/ 50m 5.2m/ 5.2m/ 5.2m/								
TRANSIENT RESPONSE TIME (*10) Transient Response Time 1.5ms 1ms 1ms 1ms 1ms 2ms 2ms 2ms OUTPUT RESPONSE TIME Rated load 80ms 80ms 80ms 80ms 80ms 80ms 80ms 150ms 150ms 150ms 150ms 200ms 200ms Fall Time(*9) Rated load 80ms 80ms 80ms 80ms 80ms 150ms 150ms 150ms 200ms 300ms 300ms 300ms 300ms 300ms 300ms 300ms 300ms 300ms 30ms 3mA 50ms 3mA 50mA 3mA 50mA	250m 250m 250m 250m 250m 200m 2.6m/ 20.4m 0.09m/ 20.4m 20.4m 0.09m/ 5.2m/ 50m 5.2m/ 5.2m/ 5.2m/								
OUTPUT RSPONSE TIME Rated load 80ms 150ms 150ms 150ms 200ms 200ms PROCRAMMING AND MEASUREMENTS (RS-232/485, USB, LAN, CPIB) 30mV 50mv 75mV 30mV 50mv 75mV 200mv 30mV 50mv 75mV 15mV 200mv 30mV 50mv 75mV 10mV 20mV 40mV 2mV 34mV 5,mV 10,mV 10,mV 10,mV 10,mV 10,mV 10,mV 10,mV 10,mV 30m4 50ms 30mV 50mv 30mV 40mV 0,mV 10,mV 10,mV 10,mV 10,mV 10,mV 10,mV 10,mV 10,mV 3,mA	250m 250m 250m 250m 250m 4000m 2.6m/ 20.4m 0.09m/ 600m 5.2m/ 20.4m 0.09m/ 5.2m/ 5.2m/ 5.200m 0.26~2.860 5.2m/ 6000m								
Rise Time(*8) Rated load No load 80ms 80ms 80ms 80ms <th>250m 250m 4000m 2.6m/ 2.6m/ 2.6m/ 2.6m/ 5.2m/ 2.6m/ 0.9m/ 5.2m/ 0.9m/ 5.2m/ 5.2m/ 0.9m/ 0.09m/ 0.00m/0</th>	250m 250m 4000m 2.6m/ 2.6m/ 2.6m/ 2.6m/ 5.2m/ 2.6m/ 0.9m/ 5.2m/ 0.9m/ 5.2m/ 5.2m/ 0.9m/ 0.09m/ 0.00m/0								
Inter (sy) No load 80ms 80ms 80ms 80ms 80ms 80ms 150ms 150ms 150ms 200ms Fall Time(*9) Rated load 10ms 50ms 80ms 80ms 100ms 150ms 200ms 200ms 200ms 3000ms 3000ms 100ms 150ms 150ms 200ms 3000ms 3000ms 3000ms 100ms 150ms 200ms 3000ms 3000ms 300ms 100ms 150ms 150ms 150ms 150ms 3000ms 3000ms 100ms 100ms 100ms 100ms 10ms 50mv 10mV 200mN 30mV 10mV 10mV <td< th=""><th>250m 250m 4000m 2.6m/ 2.6m/ 2.6m/ 2.6m/ 5.2m/ 2.6m/ 0.9m/ 5.2m/ 0.9m/ 5.2m/ 5.2m/ 0.9m/ 0.09m/ 0.00m/0</th></td<>	250m 250m 4000m 2.6m/ 2.6m/ 2.6m/ 2.6m/ 5.2m/ 2.6m/ 0.9m/ 5.2m/ 0.9m/ 5.2m/ 5.2m/ 0.9m/ 0.09m/ 0.00m/0								
No load Stoland Stoland <t< th=""><th>4000m 300m 2.6m/ 20.4m 0.09m/ 600m 5.2m/ 20.4m 0.09m/ 0.02m/</th></t<>	4000m 300m 2.6m/ 20.4m 0.09m/ 600m 5.2m/ 20.4m 0.09m/ 0.02m/								
PROGRAMMING AND MEASUREMENTS (RS-232/485, USB, LAN, GPIB) Image: Constraint of the constraint of t	300m\ 2.6m/ 20.4m\ 0.09m/ 600m\ 5.2m/ 20.4m\ 0.09m/ 5.2m/ 5.2m/ 5.2m/ 6000m\ 0.26~2.86/ 5.2m/								
Output Current Programming Accuracy 0,2%+ 200mA 120mA 76mA 38mA 25mA 15mA 10mA 5mA 3.8mA Output Voltage Programming Resolution 0.2mV 0.4mV 0.7mV 13.mV 2mV 3.4mV 5.2mV 10.2mV 10.2mV 10.2mV 10.2mV 10.3mA 0.3mA 0.3mA 0.3mA 0.3mA 0.3mA 0.3mA 0.0mV 10.0mV 10.0mV 10.0mA 7.6mA 0.3mA 0.1mA 0.3mA 0.0mA 0.3mA	2.6m/ 20.4m\ 0.09m/ 600m\ 5.2m/ 20.4m\ 0.09m/ 5.2m/ 5.5\ 5.~660\ 6000m\ 0.26~2.86/ 52m/								
Output Voltage Programming Resolution Output Current Programming Resolution 0.2mV 0.4mV 0.7mV 1.3mV 2mV 3.4mV 5.2mV 10.2mV 0.3mM 0.3mA 0.3mA <th< th=""><th>20.4m\ 0.09m/ 600m\ 5.2m/ 20.4m\ 0.09m/ 0.09m/ 5 5 5 6000m\ 0.26~2.86f 52m/</th></th<>	20.4m\ 0.09m/ 600m\ 5.2m/ 20.4m\ 0.09m/ 0.09m/ 5 5 5 6000m\ 0.26~2.86f 52m/								
Output Current Programming Resolution 6mA 2.5mA 1.2mA 0.8mA 0.5mA 0.34mA 0.13mA 0.13mA 0.03mA 0.13mA 0.03mA 0.03mA 0.13mA 0.03mA 0.03mA<	0.09m/ 600m/ 20.4m/ 0.09m/ 0.09m/ 5.2m/ 0.09m/ 00000000000000000000000000000000000								
Output Current Measurement Accuracy 0.2%+ Output Current Measurement Resolution Output Current Measurement Resolution TEMPERATURE COEFFICIENCE 400mA 0.3mX 152mA 2.5mX 76mA 1.3mV 30mA 2mV 3.4mV 5.2mV 10.2mV 13.6mV TEMPERATURE COEFFICIENCE I 100ppm/C after a 30 minut warm-up 0.3mA	5.2m/ 20.4m\ 0.09m/ 5\ 5\ 5\ 6000m\ 0.26~2.86/ 52m/								
Output Voltage Measurement Resolution 0.2mV 0.4mV 0.7mV 1.3mV 2mV 3.4mV 5.2mV 10.2mV 13.6mV Output Current Measurement Resolution 0 6mA 4mA 2.5mA 1.2mA 0.8mA 0.5mA 0.34mA 0.13mA TEMPERATURE COEFFICIENCE 100ppm/°C after a 30 minute warm-up 0.8mA 0.5mA 0.34mA 0.13mA REMOTE SENSE COMPENSATION VULTAGE(SINCLE WIRE) 100ppm/°C after a 30 minute warm-up 7<	20.4m\ 0.09m/ 5\ 5\ 6000m\ 0.26~2.86f 52m/								
TEMPERATURE COEFFICIENCE Voltage & Current 100ppm/°C after a 30 minute warm-up REMOTE SENSE COMPENSATION VOLTAGE(SINGLE WIRE) Voltage 1V 1V 1V 2V 3V 5V 5V 5V 5V PROTECTION FUNCTION Over Voltage Protection(OVP) Setting Range Setting Accuracy 0.6~6.6V 1.25~13.75V 2-22V 4-44V 5~66V 5~110V 5~165V 5~330V 4.4400m/V Over Voltage Protection(OVP) Setting Range Setting Accuracy 0.6~6.6V 1.25~13.75V 2-22V 4-44V 5~66V 5~110V 5~165V 5~330V 5~4400 Over Current Protection(OCP) Setting Range 0.6~6.6V 1.25~13.75V 2-02V 4~44V 5~66V 1.5~16.5A 1~11A 0.5~5.5A 0.38-41.18/ Under Voltage Limit(UVL) Setting Range 0.6~6.3V 0~112.1V 0~21V 0~42V 0~63V 0~157.5V 0.38-44.18/ Over Temperature Protection(OHP) Operation Turn the output off. Turn the output off. Turn the output off. Turn the output off.	5~660\ 6000m\ 0.26~2.86/ 52m/								
Voltage & Current 100ppm/°C after a 30 minute warm-up REMOTE SENSE COMPENSATION VOLTAGE(SINCLE WIRE) Voltage 1V 1V 1V 2V 3V 5V 5V 5V PROTECTION FUNCTION 0.6~6.6V 1.25~13.75V 2~22V 4~44V 5~66V 5~110V 5~15V 5~30V 5~440V Over Voltage Protection(OVP) Setting Range Setting Accuracy 0.6~6.6V 1.25~13.75V 2~22V 4~44V 5~66V 5~110V 5~15V 5~30V 5~440V Over Voltage Protection(OCP) Setting Range Setting Accuracy 0.6~2.0V 2-020X 5~132A 5~83.6A 3.8~41.8A 2.5~27.5A 1.5~16.5A 1~11A 0.5~5.5A 0.38~4.18A Under Voltage Limit(UVL) Setting Range 0~6.3V 0~13.12V 0~21V 0~42V 0~63V 0~100mX 100mA 76mA Over Temperature Protection Rection Rection Protection Rection Protection Rection Protection Rection Recting Range 0~300mA 200mA	5~660\ 6000m\ 0.26~2.864 52m4								
REMOTE SENSE COMPENSATION VOLTAGE(SINGLE WIRE) Voltage 1V 1V 1V 2V 3V 5V 5V 5V 5V PROTECTION FUNCTION Over Voltage Protection(OVP) Setting Range Setting Accuracy Over Current Protection(OCP) Setting Range Setting Accuracy Over Current Protection(OCP) Setting Range Setting Accuracy Over Current Protection(OCP) Setting Range Setting Accuracy Over Temperature Protection(OHP) Operation Incorred Sensing Connection Protection(SENSE) Operation Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) 0.6–6.6V 5-210A 1.25–13.75V 2-22V 2-22V 4-44V 4-44V 5-66V 5-110V 5-165V 5-330V 5-4400 Inter the output off. Turn the output off. Turn the output off. Turn the output off. TypeA: Host, TypeB: Slave, Speed: 1.1/2.0, USB Class: CDC(Communications Device Class) MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask GOPIE (Factory Option) Using Control Voltage Control	5~660\ 6000m\ 0.26~2.864 52m4								
PROTECTION FUNCTION Over Voltage Protection(OVP) Setting Range Setting Accuracy Over Current Protection(OCP) Setting Range Setting Accuracy Over Current Protection(OCP) Setting Range Over Setting Range Setting Accuracy Over Current Protection(OCP) Setting Range Setting Accuracy Over Temperature Protection(OHP) Operation Incorrect Sensing Connection Protection(SENSE) Operation Shutdown (SD) Power Limit (POWER LIMIT) Power Limit (POWER LIMIT) Deparation Value (Fixed) 0.6-6.6V 1.25~132A 5~83.6A 3.8~41.8A 2.5~27.5A 3.8~41.8A 2.5~27.5A 3.8~41.8A 2.5~27.5A 5.00mA 0~13.12V 5~16.V 600mV 1500mA 200mA 0~20V 0~63V 5~30V 3000mV 1500mA 200mA 0~105V 6.3-440V 0.38~4.18A 2.5~27.5A 1.5~16.5A 0.00mA 20	5~660\ 6000m\ 0.26~2.864 52m4								
Over Voltage Protection(OVP) Setting Range Setting Accuracy Over Current Protection(OCP) Setting Range Setting Accuracy Over Current Protection(OCP) Setting Range Setting Accuracy Setting Accuracy Under Voltage Limit(UVL) Setting Range Over Temperature Protection(OHP) Operation Incorret Sensing Connection Protection(SENSE) Operation Cover Temperature Protection(OHP) Operation Incorret Sensing Connection Protection(SENSE) Operation Shutdown (SD) Power Limit (POWER LIMIT) Operation Power Limit (POWER LIMIT) Value (Fixed) 1.25~13.75V 2.20A 2.22V 5~132A 4.44V 5~83.6A 3.8-41.8A 2.5~27.5A 1.5-16.5A 1.711A 0.5-5.5A 0.38-4.18A Muddown Voltage Limit(UVL) Setting Range Setting Range 0~6.3V 0~13.12V 0~21V 0~42V 0~63V 0~157.5V 0~315V 0~420V Over Temperature Protection(AC-FAIL) Operation Incorret Sensing Connection Protection(SENSE) Operation Power Limit Turn the output off. Turn the output off. 0~42V 0~63V 0~157.5V 0~315V 0~420V INTERFACE CAPABILITIES Operation Value (Fixed) TypeA: Host, TypeB: Slave, Speed: 1.1/2.0, USB Class: CDC(Communications Device Class) Mack Address, Subnet Mask GPIB (Factory Option) SCPI- 1993, IEEE 488.2 compliant interface SCPI- 1993, IEEE 488.2 compliant interface ISOLATED ANALOC CONTROL INTERFACE (FACTORY OPTION) Using 0-5V or 0-10V signals for programming and measurement	6000m 0.26~2.864 52m								
Setting Accuracy 60mV 125mV 200mV 400mV 60mV 1500mV 3000mV 400mV Over Current Protection(OCP) Setting Range 5~220A 5~32.6A 3.8~41.8A 2.5~27.5A 1.5~16.5A 1~11A 0.5~5.5A 0.38~4.18A Under Voltage Limit(UVL) Setting Range 5~220A 5~132A 760mA 500mA 300mA 200mA 0.38~4.18A Over Temperature Protection(OHP) Operation Turn the output off. 0~13.12V 0~21V 0~42V 0~63V 0~105V 0~315V 0~420V Low AC Input Protection (AC-FAIL) Operation Turn the output off. 0ver power limit Approx.105% of rated output power Value (Fixed) Approx.105% of rated output power Value (Fixed) MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask Complic with the ElA32D / ElA485 Specifications SCPI - 1993, IEEE 488.2 compliant interface Voltage Control Voltage Control <t< th=""><th>6000m 0.26~2.864 52m</th></t<>	6000m 0.26~2.864 52m								
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Under Voltage Limit(UVL) Setting Range 0~6.3V 0~13.12V 0~21V 0~42V 0~63V 0~105V 0~157.5V 0~315V 0~420V Over Temperature Protection(OHP) Operation Incorred Sensing Connection Protection(SENSE) Operation Shutdown (SD) Turn the output off. Turn the output off. 0~105V 0~157.5V 0~315V 0~420V Shutdown (SD) Operation Value (Fixed) Turn the output off. Turn the output off. Value (Fixed) 0/105V of rated output power Value Value (Fixed) 0/105V of rated output power Value Value (Fixed)									
Over Temperature Protection(OHP) Operation Incorrect Sensing Connection Protection(SENSE) Operation Shutdown (SD) Turn the output off. Turn the output off. Power Limit (POWER LIMIT) Operation Value (Fixed) Over power limit Approx. 105% of rated output power INTERFACE CAPABILITIES TypeA: Host, TypeB: Slave, Speed: 1.1/2.0, USB Class: CDC (Communications Device Class) MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask Complies with the EIA232D / EIA485 Specifications SCPIB (Factory Option) ISOLATED ANALOG CONTROL INTERFACE (FACTORY OPTION) Using 0-5V or 0-10V signals for programming and measurement									
Incorrect Sensing Connection Protection (SENSE) Operation Turn the output off. Low AC Input Protection (AC-FAIL) Operation Turn the output off. Shutdown (SD) Operation Power Limit (POWER LIMIT) Operation Value (Fixed) Over power limit Approx. 105% of rated output power Approx. 105% of rated output power INTERFACE CAPABILITIES TypeA: Host, TypeB: Slave, Speed: 1.1/2.0, USB Class: CDC(Communications Device Class) MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask Complies with the EIA232D / EIA485 Specifications GPIB (Factory Option) SCPI- 1993, IEEE 488.2 compliant interface SCPI- 1993, IEEE 488.2 compliant interface ISOLATED ANALOG CONTROL INTEFACE (FACTORY OPTION) Using 0-5V or 0-10V signals for programming and measurement									
Shutdown (SD) Power Limit (POWER LIMIT) Operation Operation Value (Fixed) Turn the output off. Over power limit Approx. 105% of rated output power INTERFACE CAPABILITIES TypeA: Host, TypeB: Slave, Speed: 1.1/2.0, USB Class: CDC(Communications Device Class) MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask Complies with the EIA232D / EIA485 Specifications SCPIB (Factory Option) SCPI - 1993, IEEE 488.2 compliant interface ISOLATED ANALOG CONTROL INTERFACE (FACTORY OPTION) Using 0-5V or 0-10V signals for programming and measurement									
Power Limit (POWER LIMIT) Value (Fixed) Operation Value (Fixed) Over power limit Approx. 105% of rated output power INTERFACE CAPABILITIES TypeA: Host, TypeB: Slave, Speed: 1.1/2.0, USB Class: CDC(Communications Device Class) USB TypeA: Host, TypeB: Slave, Speed: 1.1/2.0, USB Class: CDC(Communications Device Class) LAN MAC Address, DNS IP Address, User Password, Cateway IP Address, Instrument IP Address, Subnet Mask Complies with the ElA232D / EIA485 Specifications GPIB (Factory Option) SCPI- 1993, IEEE 488.2 compliant interface ISOLATED ANALOC CONTROL INTEFACE (FACTORY OPTION) Using 0-5V or 0-10V signals for programming and measurement									
INTERFACE CAPABILITIES USB TypeA: Host, TypeB: Slave, Speed: 1.1/2.0, USB Class: CDC (Communications Device Class) LAN MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask RS-232 / RS-485 Complies with the EIA232D / EIA485 Specifications GPIB (Factory Option) SCPI - 1993, IEEE 488.2 compliant interface ISOLATED ANALOG CONTROL INTERFACE (FACTORY OPTION) Using 0-5V or 0-10V signals for programming and measurement									
USB TypeA: Host, TypeB: Slave, Speed: 1.1/2.0, USB Class: CDC(Communications Device Class) LAN MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask RS-232 / RS-485 Complies with the EIA232D / EIA485 Specifications GPIB (Factory Option) SCPI - 1993, IEEE 488.2 compliant interface ISOLATED ANALOG CONTROL INTERFACE (FACTORY OPTION) Using 0-5V or 0-10V signals for programming and measurement									
LAN MAC Address, DNS IP Address, User Password, Gateway IP Address, Instrument IP Address, Subnet Mask RS-232 / RS-485 Complies with the EIA232D / EIA485 Specifications GPIB (Factory Option) SCPI - 1993, IEEE 488.2 compliant interface ISOLATED ANALOG CONTROL INTERFACE (FACTORY OPTION) Using 0-5V or 0-10V signals for programming and measurement									
RS-232 / RS-485 Complies with the EIA232D / EIA485 Specifications GPIB (Factory Option) SCPI - 1993, IEEE 488.2 compliant interface ISOLATED ANALOG CONTROL INTERFACE (FACTORY OPTION) Using 0-5V or 0-10V signals for programming and measurement									
ISOLATED ANALOG CONTROL INTERFACE (FACTORY OPTION) Voltage Control Using 0-5V or 0-10V signals for programming and measurement									
Voltage Control Using 0-5V or 0-10V signals for programming and measurement									
ENVIRONMENTAL CONDITIONS									
Operating Temperature $0^{\circ}C \sim 50^{\circ}C$ Storage Temperature $-25^{\circ}C \sim 70^{\circ}C$									
Operating Humidity 20% ~ 85% RH; No condensation	20% ~ 85% RH; No condensation								
Storage Humidity 90% RH or less; No condensation Altitude Maximum 2000m									
INPUT CHARACTERISTICS									
Nominal Input Rating 100Vac to 240Vac, 50Hz to 60Hz, single phase									
Input Voltage Range 85Vac ~ 265Vac Input Frequency Range 47Hz ~ 63Hz									
Maximum Input Current 100Vac/200Vac(A) 21/11									
Inrush Current Less than 50A Maximum Input Power 2000VA									
Power Factor 100Vac/200Vac 0.99/0.98									
Hold-up Time 20ms or greater	04/07								
Efficiency (*13) 100Vac/200Vac(%) 77/79 82/85 83/86 84/87	84/87								
423(W) × 43.6(H) × 447.2(D)mm, Approx. 8.7kg									
Note : *1. Minimum voltage is guaranteed to maximum 0.2% of the rated output voltage. *8. From 10%–90% of rated output voltage, with rated resistive load. Specifications subject to change without notice. SU	SeriesGD1D								
*2. Minimum current is guaranteed to maximum 0.4% of the rated output current. *9. From 90%-10% of rated output voltage, with rated resistive load. *3. At 85-132Vac or 170-265Vac, constant load. *10. Time for output voltage to recover within 0.5% of its rated									
*4. From No-load to Full-load, constant input voltage. output for a load change from 10-90% of its rated output *12. For 6V model the ripple is measured at 2~6V output voltage and Measured at the sensing point in Remote Sense. current. Voltage set point from 10%-100% of rated output. output current. For other models, the ripple is measured at 10~	tull 00%								
*5. Measure with JEITA RC-9131B (1:1) probe. *6. Measurement frequency bandwidth is 10Hz-20MHz. constant input voltage. *11. For load voltage change, equal to the unit voltage rating, output voltage and full output current. *13. At rated output power.									
*7. Measurement frequency bandwidth is 5Hz~1MHz.									
ORDERING INFORMATION OPTIONAL ACCESSORIES PSU-01B Bus bar for 2 units in parallel connection GTL-246 USB Cable, USB 2.0A-B	Tupe Cable 41								
PSU 0-200 1200 w Programmable Switching DC Power Supply	/ 1								
PSU-02B Bus bar for 3 units in parallel connection PSU-CPIB Interface card (facto									
PSU 40-38 1520W Programmable Switching DC Power Supply PSU-02C Cable for 3 units in parallel connection GPW-001 UL/CSA power cord 3 m. F									
PSU 60-25 1500W Programmable Switching DC Power Supply PSU 100-15 1500W Programmable Switching DC Power Supply PSU 100-15 1500W Programmable Switching DC Power Supply									
PSU 100-15 1500W Programmable Switching DC Power Supply PSU-232 RS232 Cable with DB9 connector kit	1.1.1								
PSU 300-5 1500W Programmable Switching DC Power Supply PSU-485 RS485 Cable with DB9 connector kit									
PSU 400-3.8 1520W Programmable Switching DC Power Supply PSU 600-2.6 1560W Programmable Switching DC Power Supply PSU-02A Joins a vertical stack of 2 PSU units together. 2U-sized handles x2, joinin PSU-02A Joins a vertical stack of 3 PSU units together. 3U-sized handles x2, joinin	1								
i so soo zio i isooni i ogrammable smeming be i owel supply iso ver joins a venteal stack of 5 F30 units together. 30-sized handles x2, joinin									
ACCESSORIES PSU-03A Joins a vertical stack of 4 PSU units together. 4U-sized handles x2, joinin	g plates x2								
CD-ROM x 1(Liser Manual Programming Manual). Output terminal cover x 1 PSU-ISO-1 Isolate current remote control card(factory option)	g plates x2								
CD-ROM x 1 (User Manual, Programming Manual), Output terminal cover x 1, Analog connector plug kit x 1,Output terminal M8 bolt set(6V~60V model), PSU-ISO-I Isolate current remote control card(factory option) PSU-ISO-V Isolate voltage remote control card(factory option)	g plates x2								
CD-ROM x 1 (User Manual, Programming Manual), Output terminal cover x 1,	g plates x2								



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