## PROGRAMMABLE SWITCHING D.C. POWER SUPPLY



GW Instek PSU-Series, a DC power supply with high power density design, is 1U in height and compatible with 19" Rack Mount Size. The series is suitable for test system installation or system integration by flexibly selecting models for the integration into the existing test system. The PSU-Series, featuring superior voltage and current control functions, comprises fifteen models with output voltage/current ranging from 6V/200A to 600V/2.6A. The Series is suitable for different test conditions and DUTs, including electronic components testing, micro resistors, relays, shunt resistors, 12V/24V/48V battery simulation, and automotive electronic device testing.

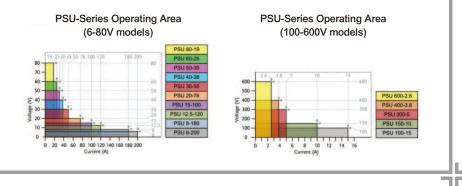
The PSU-HV series is ideal for the primary input of DC/DC converter and servomotor production application. PSU is often integrated into component test systems such as aging test equipment for capacitors; 600V DC bias applications; aging test equipment for diode; semiconductor production equipment; automotive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

Utilizing same model units of the PSU-Series to conduct series and parallel connections can increase total output power, total current or total voltage. The wide voltage and current output ranges of the PSU-Series can fully satisfy various voltage and current measurement requirements. 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 by adjusting the rise time of output voltage to protect DUT from being damaged by inrush current occurred at turn-on.

Comparing with other 1U power supplies available in the market, PSU 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 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 augmentation equipment for connecting slave while using LAN or USB.

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



## **PSU-Series**

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## **PSU-Series**

### **FEATURES**

- Voltage Output : 6V/8V/12.5V/15V/20V/ 30V/40V/50V/60V/80V/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
- Electronic Components Testing
- Micro Resistors
- Relays
- Shunt Resistors

Model Name	Voltage	Current	Power
PSU 6-200	6V	200A	1200W
PSU 8-180	8V	180A	1440W
PSU 12.5-120	12.5V	120A	1500W
PSU 15-100	15V	100A	1500W
PSU 20-76	20V	76A	1520W
PSU 30-50	30V	50A	1500W
PSU 40-38	40V	38A	1520W
PSU 50-30	50V	30A	1500W
PSU 60-25	60V	25A	1500W
PSU 80-19	80V	19A	1520W
PSU 100-15	100V	15A	1500W
PSU 150-10	150V	10A	1500W
PSU 300-5	300V	5A	1500W
PSU 400-3.8	400V	3.8A	1520W
PSU 600-2.6	600V	2.6A	1560W



SPECIFICATIONS MODEL	PSU 6-200	PSU 8-180	PSU 12.5-120	PSU 15-100	PSU 20-76	PSU 30-50	PSU 40-38	PSU 50-3					
OUTPUT RATINGS	. 55 0-200	. 30 0-100	. 55 12.5-120		. 33 20-70			. 55 50-					
Rated Output Voltage (*1)	6V	8V	12.5V	15V	20V	30V	40V	50V					
Rated Output Current (*2)	200A	180A	120A	100A	76A	50A	38A	30/					
Rated Output Power	1200W	1440W	1500W	1500W	1520W	1500W	1520W	1500\X					
RIPPLE AND NOISE(*5)			1	1	1		1						
CVp-p( 10 ~ 20MHz) p-p (*6)	60mV 8mV	60mV	60mV	60mV	60mV	60mV	60mV	60m\					
CVrms(5Hz ~ 1MHz) r.m.s. (*7) CCrms(5Hz ~ 1MHz) r.m.s.(*12)	8mv 400mA	8mV 360mA	8mV 240mA	8mV 200mA	8mV 152mA	8mV 125mA	8mV 95mA	8m\ 85m/					
OAD REGULATION			-										
Voltage(*4)	2.6mV	2.8mV	3.25mV	3.5mV	4mV	5mV	6mV	7m\					
Current(*11)	45mA	41mA	29mA	25mA	20.2mA	15mA	12.6mA	11m/					
LINE REGULATION			1	1	1								
Voltage(*3)	2.6mV	2.8mV	3.25mV	3.5mV	4mV	5mV	6mV	7m)					
Current(*3)	22mA	20mA	14mA	12mA	9.6mA	7mA	5.8mA	5m/					
ANALOG PROGRAMMING AND MC external Voltage Control Output Voltage			C										
External Voltage Control Output Voltage			f rated output volta ated output curren										
External Resistor Control Output Voltage	Accuracy and	linearity:±1% of r	ated output voltage	e									
External Resistor Control Output Current			f rated output curre	ent									
Dutput Voltage Monitor Dutput Current Monitor	Accuracy: ±1% Accuracy: ±1%												
Shutdown Control			/ (0V to 0.5V) or sh	ort-circuit									
Output On/Off Control	Possible logic	selections :	· · · ·										
			/ (0V to 0.5V) or sh										
larm Clear Control			H (4.5V to 5V) or c 0.5V) or short-circ		the output on t	ising a LOW (0	v to 0.5 v) or sric	ort-circuit					
CV/CC/ALM/PWR ON/OUT ON Indicator	Photocoupler	open collector ou	tput; Maximum vo	ltage 30V, maxim									
rigger Out			3V; minimum high										
rigger In	iviaximum low	rievei input voltag	ge = 0.8V; minimun	ri nign level input	votage = 2V, M	aximum sink c	urrent = 8mA						
RONT PANEL Display, 4 digits, Voltage Accuracy 0.1%+	12mV	16mV	25mV	30mV	40mV	60mV	80mV	100m					
Current Accuracy 0.1%+	600mA	540mA	360mA	300mA	228mA	150mA	114mA	90m					
ndications			R, ISR, DLY, RMT, L										
uttons	Lock/Local(Ur	lock), PROT(ALN	1_CLR), Function(N				, ב						
nobs	Voltage, Curre												
ISB Port	Type A USB co	onnector											
RANSIENT RESPONSE TIME (*10) ransient Response Time	1.5ms	1.5ms	lms	lms	lms	lms	lms	lır					
DUTPUT RESPONSE TIME	1.5005	1.51115	11115	11115	1113	11115	11115						
ise Time(*8) Rated load	80ms	80ms	80ms	80ms	80ms	80ms	80ms	80m					
No load	80ms	80ms	80ms	80ms	80ms	80ms	80ms	80m					
all Time(*9) Rated load No load	10ms 500ms	50ms 600ms	50ms 700ms	50ms 700ms	50ms 800ms	80ms 900ms	80ms 1000ms	80n 1100n					
ROGRAMMING AND MEASUREME				,	0001115	5001113	10001115						
utput Voltage Programming Accuracy 0.05%+	3mV	4mV	6.25mV	7.5mV	10mV	15mV	20mV	25m					
utput Current Programming Accuracy 0.2%+	200mA	180mA	120mA	100mA	76mA	50mA	38mA	30m					
utput Voltage Programming Resolution utput Current Programming Resolution	0.2mV 6mA	0.27mV 6mA	0.4mV 4mA	0.5mV 3.3mA	0.7mV 2.5mA	1mV 1.7mA	1.3mV 1.2mA	1.7m 1m					
utput Voltage Measurement Accuracy 0.1%+	6mV	8mV	12.5mV	15mV	20mV	30mV	40mV	50m					
utput Current Measurement Accuracy 0.2%+	400mA	360mA	240mA	200mA	152mA	100mA	76mA	60m					
utput Voltage Measurement Resolution utput Current Measurement Resolution	0.2mV 6mA	0.27mV 6mA	0.4mV 4mA	0.5mV 3.3mA	0.7mV 2.5mA	1mV 1.7mA	1.3mV 1.2mA	1.7m 1m					
EMPERATURE COEFFICIENCE	0.1.1.1	<b>U</b> III I		5151111	2101111								
oltage & Current	100ppm/°C a	fter a 30 minute v	varm-up										
EMOTE SENSE COMPENSATION V	OLTAGE(TWC	WIRE)											
oltage	1V	1V	1V	1V	1V	1.5V	2V	2					
ROTECTION FUNCTION													
Over Voltage Protection(OVP) Setting Range	0.6~6.6V	0.8~8.8V	1.25~13.75V	1.5~16.5V	2~22V	3~33V	4~44V	5~55					
Setting Accuracy Over Current Protection(OCP) Setting Range	60mV 5~220A	80mV 5~198A	125mV 5~132A	150mV 5~110A	200mV 5~83.6A	300mV 5~55A	400mV 3.8~41.8A	500m 3~33					
Setting Accuracy	4000mA	3600mA	2400mA	2000mA	1520mA	1000mA	760mA	600m					
nder Voltage Limit(UVL) Setting Range	0~6.3V	0~8.4V	0~13.12V	0~15.75V	0~21V	0~31.5V	0~42V	0~52.5					
ver Temperature Protection(OHP) Operation	Turn the outp												
correct Sensing Connection Protection(SENSE) Operation ow AC Input Protection (AC-FAIL) Operation	Turn the outp												
nutdown (SD) Operation	Turn the outp Turn the outp												
ower Limit (POWER LIMIT) Operation	Over power li												
Value (Fixed)		of rated output p	oower										
ITERFACE CAPABILITIES													
SB													
AN			, User Password, O		ess, Instrument	IP Address, Su	ubnet Mask						
C 222 / DC 495	Complies with the EIA232D / EIA485 Specifications												
	SCPI - 1993, IEEE 488.2 compliant interface												
PIB (Factory Option)		Using 0-5V or 0-10V signals for programming and measurement											
PIB (Factory Option) OLATED ANALOG CONTROL INTE oltage Control	RFACE (FACT Using 0-5V or	0-10V signals for	Using 4-20mA current signals for programming and measurement										
PIB (Factory Option) SOLATED ANALOG CONTROL INTE oltage Control urrent Control	RFACE (FACT Using 0-5V or	0-10V signals for		nd measurement									
PIB (Factory Option) SOLATED ANALOG CONTROL INTE oltage Control urrent Control NVIRONMENTAL CONDITIONS	RFACE (FACT Using 0-5V or Using 4-20mA	0-10V signals for current signals for		nd measurement	•			0°C~50°C (*14)					
PIB (Factory Option) COLATED ANALOG CONTROL INTE Oltage Control urrent Control NVIRONMENTAL CONDITIONS perating Temperature	RFACE (FACT Using 0-5V or Using 4-20mA	0-10V signals for current signals for		nd measurement	-								
PIB (Factory Option) COLATED ANALOG CONTROL INTE oltage Control urrent Control NVIRONMENTAL CONDITIONS perating Temperature torage Temperature	RFACE (FACT) Using 0-5V or Using 4-20mA 0°C ~ 50°C (* -25°C ~ 70°C	0-10V signals for current signals for	or programming a	nd measurement									
PIB (Factory Option) OLATED ANALOG CONTROL INTE oltage Control urrent Control NVIRONMENTAL CONDITIONS perating Temperature perating Humidity torage Humidity	RFACE (FACT) Using 0-5V or Using 4-20mA 0°C ~ 50°C (* -25°C ~ 70°C 20% ~ 85% R 90% RH or let	0-10V signals for a current signals for (14) H; No condensati ss; No condensati	or programming a	nd measurement									
PIB (Factory Option) SOLATED ANALOG CONTROL INTE SOLATED ANALOG CONTROL INTE International Control NVIRONMENTAL CONDITIONS Operating Temperature Operating Humidity torage Humidity Ititude	RFACE (FACT) Using 0-5V or Using 4-20mA 0°C ~ 50°C (* -25°C ~ 70°C 20% ~ 85% R	0-10V signals for a current signals for (14) H; No condensati ss; No condensati	or programming a	nd measurement									
S-232 / RS-485 PIB (Factory Option) SOLATED ANALOG CONTROL INTE foltage Control urrent Control NVIRONMENTAL CONDITIONS Operating Temperature torage Temperature Operating Humidity torage Humidity Utitude NPUT CHARACTERISTICS Institute	RFACE (FACT) Using 0-5V or Using 4-20mA 0°C ~ 50°C (* -25°C ~ 70°C 20% ~ 85% R 90% RH or le: Maximum 200	0-10V signals for a current signals fo (14) H; No condensati ss; No condensati 00m	or programming a on ion	nd measurement									
PIB (Factory Option) SOLATED ANALOG CONTROL INTE oltage Control urrent Control NVIRONMENTAL CONDITIONS operating Temperature torage Temperature operating Humidity torage Humidity torage Humidity litude NPUT CHARACTERISTICS lominal Input Rating	RFACE (FACT) Using 0-5V or Using 4-20mA 0°C ~ 50°C (* -25°C ~ 70°C 20% ~ 85% R 90% RH or le: Maximum 200 100Vac to 240	0-10V signals for current signals fo (14) H; No condensati Ss; No condensati 00m Vac, 50Hz to 60H	or programming a on ion	nd measurement									
IPIB (Factory Option) SOLATED ANALOG CONTROL INTE foltage Control urrent Control NVIRONMENTAL CONDITIONS operating Temperature torage Temperature operating Humidity torage Humidity torage Humidity NPUT CHARACTERISTICS lominal Input Rating uput Voltage Range	RFACE (FACT) Using 0-5V or Using 4-20mA 0°C ~ 50°C (* -25°C ~ 70°C 20% ~ 85% R 90% RH or le: Maximum 200 100Vac to 240 85Vac ~ 265Va	0-10V signals for current signals fo (14) H; No condensati Ss; No condensati 00m Vac, 50Hz to 60H	or programming a on ion	nd measurement									
PIB (Factory Option) SOLATED ANALOG CONTROL INTE SOLATED ANALOG CONTROL INTE Oltage Control Urrent Control NVIRONMENTAL CONDITIONS Operating Temperature Operating Humidity torage Humidity Ititude NPUT CHARACTERISTICS ominal Input Rating oput Voltage Range Input Voltage Range	RFACE (FACT) Using 0-5V or Using 4-20mA 0°C ~ 50°C (* -25°C ~ 70°C 20% ~ 85% R 90% RH or le: Maximum 200 100Vac to 240	0-10V signals for current signals fo (14) H; No condensati Ss; No condensati 00m Vac, 50Hz to 60H	or programming a on ion	nd measurement									
PIB (Factory Option) SOLATED ANALOG CONTROL INTE oltage Control WVIRONMENTAL CONDITIONS operating Temperature torage Temperature torage Humidity torage Humidity littude NPUT CHARACTERISTICS lominal Input Rating nput Voltage Range Iput Frequency Range laximum Input Current 100Vac/200Vac(A) rush Current	RFACE (FACT) Using 0-5V or Using 4-20mA 0°C ~ 50°C (* -25°C ~ 70°C 20% ~ 85% R 90% RH or let Maximum 200 100Vac to 240 85Vac ~ 265V 47Hz ~ 635V 21/11 Less than 50A	0-10V signals for a current signals for 14) H; No condensati ss; No condensati 20m Vac, 50Hz to 60H ac	or programming a on ion	nd measurement									
PIB (Factory Option) SOLATED ANALOG CONTROL INTE oltage Control urrent Control NVIRONMENTAL CONDITIONS operating Temperature torage Temperature operating Humidity torage Humidity litiude NPUT CHARACTERISTICS ominal Input Rating uput Voltage Range uput Frequency Range laximum Input Current 100Vac/200Vac(A) rush Current laximum Input Power	RFACE (FACT) Using 0-5V or Using 4-20mA 0°C ~ 50°C (* -25°C ~ 70°C 20% ~ 85% R 90% RH or le: Maximum 200 100Vac to 240 85Vac ~ 265Va 47Hz ~ 63Hz 21/11 Less than 50A 2000VA	0-10V signals for a current signals for 14) H; No condensati ss; No condensati 20m Vac, 50Hz to 60H ac	or programming a on ion	nd measurement									
PIB (Factory Option) SOLATED ANALOG CONTROL INTE Oltage Control urrent Control NVIRONMENTAL CONDITIONS Operating Temperature torage Temperature Operating Humidity torage Humidity lititude NPUT CHARACTERISTICS Iominal Input Rating nput Voltage Range Input Frequency Range Iaximum Input Current 100Vac/200Vac(A)	RFACE (FACT) Using 0-5V or Using 4-20mA 0°C ~ 50°C (* -25°C ~ 70°C 20% ~ 85% R 90% RH or let Maximum 200 100Vac to 240 85Vac ~ 265V 47Hz ~ 635V 21/11 Less than 50A	0-10V signals for a current signals fi (14) H; No condensati SS; No condensati 00m Vac, 50Hz to 60H ac	or programming a on ion	nd measurement									
PIB (Factory Option) COLATED ANALOG CONTROL INTE Oltage Control urrent Control NVIRONMENTAL CONDITIONS perating Temperature operating Humidity torage Humidity torage Humidity lititude NPUT CHARACTERISTICS ominal Input Rating uput Voltage Range aximum Input Current 100Vac/200Vac(A) rush Current laximum Input Power power Factor 100Vac/200Vac	RFACE (FACT Using 0-5V or Using 4-20mA 0°C ~ 50°C (* -25°C ~ 70°C 20% ~ 85% R 90% RH or le Maximum 200 100Vac to 240 85Vac ~ 265Va 47Hz ~ 63Hz 21/11 Less than 50A 2000VA 0.99/0.98	0-10V signals for a current signals fi (14) H; No condensati SS; No condensati 00m Vac, 50Hz to 60H ac	or programming a on ion	82/85	83/86	83/86	84/87	84/87					

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MODEL	PSU 60-25	PSU 80-19	PSU 100-15	PSU 150-10	PSU 300-5	PSU 400-3.8	PSU 600-2
OUTPUT RATINGS						· · · · · · · · · · · · · · · · · · ·	
Rated Output Voltage (*1) Rated Output Current (*2)	60V	80V	100V	150V	300∨	400V	600V
Rated Output Current (*2) Rated Output Power	25A 1500W	19A 1520W	15A 1500W	10A 1500W	5A 1500W	3.8A 1520W	2.6A 1560W
RIPPLE AND NOISE(*5)	1500	1320 W	1300₩	1300 w	1300 w	152000	1300 W
CVp-p( 10 ~ 20MHz) p-p (*6)	60mV	80mV	80mV	100mV	150mV	200mV	300mV
2Vrms(5Hz ~ 1MHz) r.m.s. (*7)	8mV	8mV	8mV	10mV	25mV	40mV	60mV
CCrms(5Hz ~ 1MHz) r.m.s.(*12)	75mA	57mA	45mA	35mA	25mA	17mA	12mA
OAD REGULATION	1 1		1				
/oltage(*4)	8mV 10mA	10mV 8.8mA	12mV 8mA	17mV 7mA	32mV 6mA	42mV 5.76mA	62mV 5.52mA
Current(*11)	ТОПА	8.011A	onia	7111A	UIIA	5.70IIIA	J.JZIIIA
/oltage(*3)	8mV	10mV	12mV	17mV	32mV	42mV	62mV
Current(*3)	4.5mA	3.9mA	3.5mA	3mA	2.5mA	2.38mA	2.26mA
ANALOG PROGRAMMING AND MO	ONITORING		1				
ixternal Voltage Control Output Voltage ixternal Voltage Control Output Current ixternal Resistor Control Output Voltage ixternal Resistor Control Output Voltage Monitor Dutput Voltage Monitor butput Current Monitor butput Control Dutput On/Off Control Narm Clear Control V/CC/ALM/PWR ON/OUT ON Indicator	Accuracy and linearity: ±0.5% of rated output voltage Accuracy and linearity: ±1% of rated output current Accuracy and linearity: ±1% of rated output voltage Accuracy and linearity: ±1.5% of rated output current Accuracy: ±1% Accuracy: ±1% Turns the output off with a LOW (0V to 0.5V) or short-circuit Possible logic selections: Turn the output on using a LOW (0V to 0.5V) or short-circuit, turn the output off using a HIGH (4.5V to 5V) or open-circuit; Turn the output on using a HIGH (4.5V to 5V) or short-circuit, turn the output off using a LOW(0V to 0.5V) or short-circuit Clear alarms with a LOW (0V to 0.5V) or short-circuit Photocoupler open collector output; Maximum voltage 30V, maximum sink current 8mA						
rigger Out	Maximum low le	vel output = 0.8V; m	ninimum high level	output = 2V; Maxin	mum source curre		
rigger In	Maximum low le	vel input voltage = 0	0.8V; minimum hig	n level input votage	e = 2V, Maximum	sink current = 8mA	
	100.11						
Display, 4 digits, Voltage Accuracy 0.1%+ Current Accuracy 0.2%+	120mV 75mA	160mV 57mA	200mV 45mA	300mV 30mA	600mV 15mA	800mV 11.4mA	1200mV 7.8mA
ndications	I	V, CC, V, A, VSR, ISR					7.011A
uttons	Lock/Local(Unlo	ck), PROT(ALM_CL				.,	
nobs ISB Port	Voltage, Current Type A USB conn						
<b>RANSIENT RESPONSE TIME (*10)</b>							
ransient Response Time	lms	lms	lms	2ms	2ms	2ms	2ms
OUTPUT RESPONSE TIME			1	1			
ise Time(*8) Rated load No load	80ms 80ms	150ms 150ms	150ms 150ms	150ms 150ms	150ms 150ms	200ms 200ms	250ms 250ms
all Time(*9) Rated load	80ms	150ms	150ms	150ms	150ms	200ms	250ms
No load	1100ms	1200ms	1500ms	2000ms	2500ms	3000ms	4000ms
ROGRAMMING AND MEASUREMI utput Voltage Programming Accuracy 0.05%+		<u>5, USB, LAN, GPI</u> 40mV	<b>B)</b> 50mV	75mV	150mV	200mV	300mV
utput Current Programming Accuracy 0.05%+	25mA	19mA	15mA	10mA	5mA	3.8mA	2.6mA
utput Voltage Programming Resolution	2mV	2.7mV	3.4mV	5.2mV	10.2mV	13.6mV	20.4mV
utput Current Programming Resolution utput Voltage Measurement Accuracy 0.1%+	0.8mA 60mV	0.65mA 80mV	0.5mA 100mV	0.34mA 150mV	0.19mA 300mV	0.13mA 400mV	0.09mA 600mV
utput Current Measurement Accuracy 0.2%+	50mA	38mA	30mA	20mA	10mA	7.6mA	5.2mA
utput Voltage Measurement Resolution utput Current Measurement Resolution	2mV	2.7mV	3.4mV	5.2mV	10.2mV	13.6mV	20.4mV
EMPERATURE COEFFICIENCE	0.8mA	0.65mA	0.5mA	0.34mA	0.19mA	0.13mA	0.09mA
oltage & Current	100ppm/°C afte	r a 30 minute warm	-up				
EMOTE SENSE COMPENSATION \			•				
oltage	3V	4V	5V	5V	5V	5V	5V
ROTECTION FUNCTION							
	5~66V	5~88V 800mV	5~110V 1000mV	5~165V 1500mV	5~330V 3000mV	5~440V 4000mV	5~660V
	600mV		1000111				
Setting Accuracy	600mV 2.5~27.5A	1.9~20.9A	1.5~16.5A	1~11A	0.5~5.5A	0.38~4.18A	6000mV 0.26~2.86A
Setting Accuracy Ver Current Protection(OCP) Setting Range Setting Accuracy	2.5~27.5A 500mA	1.9~20.9A 380mA	300mA	1~11A 200mA	0.5~5.5A 100mA	76mA	0.26~2.86A 52mA
Setting Accuracy Over Current Protection(OCP) Setting Range Setting Accuracy Inder Voltage Limit(UVL) Setting Range	2.5~27.5A 500mA 0~63V	1.9~20.9A 380mA 0~84V		1~11A	0.5~5.5A		0.26~2.86A
Setting Accuracy Over Current Protection (OCP) Setting Range Setting Accuracy Inder Voltage Limit (UVL) Setting Range Over Temperature Protection (OHP) Operation	2.5~27.5A 500mA	1.9~20.9A 380mA 0~84V off.	300mA	1~11A 200mA	0.5~5.5A 100mA	76mA	0.26~2.86A 52mA
Setting Accuracy Setting Range Setting Range Setting Accuracy Setting Control (OLP) Operation Setting Control (OLP) Operation Setting Control (OLP) Setting Control	2.5~27.5A 500mA 0~63V Turn the output Turn the output Turn the output	1.9~20.9A 380mA 0~84V off. off. off.	300mA	1~11A 200mA	0.5~5.5A 100mA	76mA	0.26~2.86A 52mA
Setting Accuracy Over Current Protection(OCP) Setting Range Setting Accuracy Inder Voltage Limit(UVL) Setting Range Over Temperature Protection(OHP) Operation correct Sensing Connection Protection(SENSE) Operation ow AC Input Protection (AC-FAIL) Operation hutdown (SD) Operation	2.5~27.5A 500mA 0~63V Turn the output Turn the output Turn the output Turn the output	1.9~20.9A 380mA 0~84V off. off. off. off.	300mA	1~11A 200mA	0.5~5.5A 100mA	76mA	0.26~2.86A 52mA
Setting Accuracy Over Current Protection(OCP) Setting Range Setting Accuracy Inder Voltage Limit(UVL) Setting Range Over Temperature Protection(OHP) Operation correct Sensing Connection Protection(SENSE) Operation ow AC Input Protection (AC-FAIL) Operation hutdown (SD) Operation	2.5~27.5A 500mA 0~63V Turn the output Turn the output Turn the output Turn the output Over power limit	1.9~20.9A 380mA 0~84V off. off. off. off.	300mA 0~105V	1~11A 200mA	0.5~5.5A 100mA	76mA	0.26~2.86A 52mA
Setting Accuracy Setting Accuracy Setting Range Setting Accuracy Inder Voltage Limit(UVL) Setting Range Over Temperature Protection(OHP) Operation correct Sensing Connection Protection(SENSE) Operation ow AC Input Protection (AC-FAIL) Operation hutdown (SD) Operation ower Limit (POWER LIMIT) Operation Value (Fixed)	2.5~27.5A 500mA 0~63V Turn the output Turn the output Turn the output Turn the output Over power limit	1.9~20.9A 380mA 0~84V off. off. off. off. off.	300mA 0~105V	1~11A 200mA	0.5~5.5A 100mA	76mA	0.26~2.86A 52mA
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Over Current Protection(OCP)      Setting Range Setting Accuracy        Juder Voltage Limit(UVL)      Setting Range        Diver Temperature Protection(OHP)      Operation        correct Sensing Connection Protection(SENSE)      Operation        .ow AC Input Protection (AC-FAIL)      Operation        Shutdown (SD)      Operation        Power Limit (POWER LIMIT)      Operation	2.5-27.5A 500mA 0-63V Turn the output Turn the output Turn the output Turn the output Over power limit Approx. 105% of TypeA: Host, Typ MAC Address, D Complies with th SCPI - 1993, IEE <b>ERFACE (FACTOR</b> Using 0-5V or 0- Using 4-20mA ct 0°C ~ 50°C (*14 -25°C ~ 70°C 20% ~ 85% RH; 90% RH or less; Maximum 2000r 100Vac to 240Va 85Vac ~ 265Vac 47Hz ~ 63Hz 21/11 Less than 50A	1.9~20.9A 380mA 0~84V off. off. off. off. t f rated output powe beB: Slave, Speed: 1 DNS IP Address, Use he EIA232D / EIA48 E 488.2 compliant in <b>EVOPTION</b> 10V signals for prog urrent signals for prog UNS in a condensation No condensation m	300mA 0~105V	1~11A 200mA 0~157.5V CDC(Communicat vay IP Address, Ins	0.5~5.5A 100mA 0~315V	76mA 0~420V	0.26~2.86A 52mA
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Notes:	*1. Minimum	i voltage is gua	ranteed to r	naximum	0.2%	of the	rated output	voltage.

- Minimum voltage is guaranteed to maximum 0.2% of the rated output voltage.
  Minimum current is guaranteed to maximum 0.4% of the rated output current.
  At 85~132Vac or 170~265Vac, constant load.
  From No-load to Full-load, constant input voltage. Measured at the sensing point in Remote Sense.
  Measure with JEITA RC-9131B (1:1) probe
  Measurement frequency bandwidth is 10Hz to 20MHz.
  Teom 10% to 90% of rated output voltage, with rated resistive load.
  From 10% to 90% of fated output voltage, with rated resistive load.

- \*9. From 90% to 10% of rated output voltage, with rated resistive load.

#### ORDERING INFORMATION 1200W Programmable Switching DC Power Supply 1440W Programmable Switching DC Power Supply PSU 6-200 PSU 8-180 PSU 12.5-120 1500W Programmable Switching DC Power Supply 1500W Programmable Switching DC Power Supply PSU 15-100 1520W Programmable Switching DC Power Supply 1500W Programmable Switching DC Power Supply PSU 20-76 PSU 30-50 PSU 40-38 PSU 50-30 PSU 60-25 1520W Programmable Switching DC Power Supply 1500W Programmable Switching DC Power Supply 1500W Programmable Switching DC Power Supply 1520W Programmable Switching DC Power Supply PSU 80-19 PSU 100-15 1500W Programmable Switching DC Power Supply 1500W Programmable Switching DC Power Supply PSU 150-10 PSU 300-5 PSU 400-3.8 1500W Programmable Switching DC Power Supply 1520W Programmable Switching DC Power Supply PSU 600-2.6 1560W Programmable Switching DC Power Supply

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), Input terminal cover x 1,1U Handle(ROHS),1U Bracket(LEFT, RoHS),1U Bracket (RIGHT,ROHS), Power Cord(10A) provided for certain regions only

- \*10. Time for output voltage to recover within 0.5% of its rated output for a load change from 10 to 90% of its rated output current. Voltage set point from 10% to 100% of rated output.
- \*11. For load voltage change, equal to the unit voltage rating, constant input voltage.
  \*12. For 6V~20V model the ripple is measured at 2V ~ rated output
- voltage and full output current. For other models, the ripple is measured at 10~100% output voltage and full output current. \*13. At rated output power.
- \*14. If install the front panel filter kit, the temperature is guaranteed to 40°C.

### **OPTIONAL ACCESSORIES**

	Bus bar for 2 units in parallel connection Cable for 2 units in parallel connection		UL/CSA power cord 3m ,PSU option VDE power cord 3m, PSU option			
	Bus bar for 3 units in parallel connection		PSE power cord 3m, PSU option			
PSU-02C	Cable for 3 units in parallel connection	GTL-246	USB Cable, USB 2.0A-B Type Cable, 4P			
PSU-03B	Bus bar for 4 units in parallel connection	GTL-258	GPIB Cable, 2000mm			
PSU-03C	Cable for 4 units in parallel connection	GTL-259	RS-232 Cable with DB9 connector to RJ45			
PSU-232	RS232 Cable with DB9 connector kit	GTL-260	RS-485 Cable with DB9 connector to RJ45			
PSU-485	RS485 Cable with DB9 connector kit	GTL-262	RS-485 Slave cable			
PSU-001	Front panel filter kit(factory Installed	l)				
			2U-sized handles x2, joining plates x2			
PSU-02A	Joins a vertical stack of 3 PSU units	together.	3U-sized handles x2, joining plates x2			
	,	0	4U-sized handles x2, joining plates x2			
PSU-ISO-I Isolate current remote control card (factory option)						
PSU-ISO-V Isolate voltage remote control card (factory option)						
	<b>B</b> GPIB Interface card (factory option)					
GRM-00	I Slide bracket 2pcs/set ,PSU option					
FREE D	DOWNLOAD					

#### Driver LabView Driver

Specifications subject to change without notice. PSU-SeriesGD1DS

### 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

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