PROGRAMMABLE SWITCHING D.C. POWER SUPPLY



CE USB GPIB Analog Control Driver RS-232 RS-485

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.

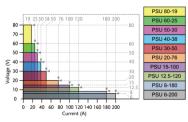
Utilizing same model units of the PSU-Series to conduct series and parallel connections can increase total output power, total current or total voltage. The wide voltage and current output ranges of the PSU-Series can fully satisfy various voltage and current measurement requirements. The PSU-Series 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.

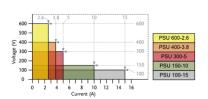
Comparing with other 1U power supplies available in the market, PSU supports a most complete array of interfaces, including USB, LAN, RS-232, RS-485, analog control interface, GPIB (option), isolated analog interface (voltage control), and isolated analog interface (current control). Via the multi-drop 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 \sim 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 Operating Area (6-80V models)



PSU-Series Operating Area (100-600V models)



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

ΠE

• 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 50-30
OUTPUT RATINGS						·		
Rated Output Voltage (*1)	6V	8V	12.5V	15V	20V	30V	40V	50V
Rated Output Current (*2) Rated Output Power	200A 1200W	180A 1440W	120A 1500W	100A 1500W	76A 1520W	50A 1500W	38A 1520W	30A 1500W
RIPPLE AND NOISE(*5)	1200W	1440W	1300W	1300W	1320W	1300W	1320W	1300 W
CVp-p(10 ~ 20MHz) p-p (*6)	60mV	60mV	60mV	60mV	60mV	60mV	60mV	60mV
CVrms(5Hz ~ 1MHz) r.m.s. (*7)	8mV	8mV	8mV	8mV	8mV	8mV	8mV	8mV
CCrms(5Hz ~ 1MHz) r.m.s.(*12)	400mA	360mA	240mA	200mA	152mA	125mA	95mA	85mA
LOAD REGULATION		T .	1		1	Ī	ı	
Voltage(*4) Current(*11)	2.6mV 45mA	2.8mV 41mA	3.25mV 29mA	3.5mV 25mA	4mV 20.2mA	5mV 15mA	6mV 12.6mA	7mV 11mA
LINE REGULATION	131111	111101	231171	231101	20.21171	131171	12.0111/1	11117
Voltage(*3)	2.6mV	2.8mV	3.25mV	3.5mV	4mV	5mV	6mV	7mV
Current(*3)	22mA	20mA	14mA	12mA	9.6mA	7mA	5.8mA	5mA
ANALOG PROGRAMMING AND MO	ONITORING	1			1			
External Voltage Control Output Voltage			f rated output volta					
External Voltage Control Output Current External Resistor Control Output Voltage			rated output curren rated output voltage					
External Resistor Control Output Current			f rated output curre					
Output Voltage Monitor	Accuracy: ±1%		·					
Output Current Monitor Shutdown Control	Accuracy: ±1%		V (0V to 0.5V) or sh	ort circuit				
Output On/Off Control	Possible logic		v (0v to 0.5v) or sn	ort-circuit				
	Turn the outp	ut on using a LOV	♥ (0V to 0.5V) or sh					
Alarm Clear Control			iH (4.5V to 5V) or c 0.5V) or short-circ		the output off ı	using a LOW(0\	/ to 0.5V) or sho	ort-circuit
CV/CC/ALM/PWR ON/OUT ON Indicator			tput; Maximum vol		um sink current	t 8mA		
Trigger Out	Maximum low	v level output = 0.	8V; minimum high	level output = 2V	/; Maximum soι	urce current = 8		
Trigger In	Maximum low	v Ievel input voltaş	ge = 0.8V; minimun	n high level input	votage = 2V, M	aximum sink c	urrent = 8mA	
FRONT PANEL Display, 4 digits, Voltage Accuracy 0.1%+	12m-1/	16:34	25.17	20	40:>/	(0)/	90	100 -11
Current Accuracy 0.1%+	12mV 600mA	16mV 540mA	25mV 360mA	30mV 300mA	40mV 228mA	60mV 150mA	80mV 114mA	100mV 90mA
Indications			R, ISR, DLY, RMT, L					
Buttons	Lock/Local(Ur	nlock), PROT(ALN	M_{CLR} , Function (N					
Knobs USB Port	Voltage, Curre							
TRANSIENT RESPONSE TIME (*10)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
Transient Response Time	1.5ms	1.5ms	1ms	1ms	1ms	1ms	1ms	1ms
OUTPUT RESPONSE TIME								
Rise Time(*8) Rated load	80ms	80ms	80ms	80ms	80ms	80ms	80ms	80ms
No load Fall Time(*9) Rated load	80ms 10ms	80ms 50ms	80ms 50ms	80ms 50ms	80ms 50ms	80ms 80ms	80ms 80ms	80ms 80ms
No load	500ms	600ms	700ms	700ms	800ms	900ms	1000ms	1100ms
PROGRAMMING AND MEASUREME								
Output Voltage Programming Accuracy 0.05%+ Output Current Programming Accuracy 0.2%+		4mV 180mA	6.25mV 120mA	7.5mV 100mA	10mV 76mA	15mV 50mA	20mV 38mA	25mV 30mA
Output Voltage Programming Resolution	0.2mV	0.27mV	0.4mV	0.5mV	0.7mV	1mV	1.3mV	1.7mV
Output Current Programming Resolution	6mA	6mA	4mA	3.3mA	2.5mA	1.7mA	1.2mA	1mA
Output Voltage Measurement Accuracy 0.1%+ Output Current Measurement Accuracy 0.2%+		8mV 360mA	12.5mV 240mA	15mV 200mA	20mV 152mA	30mV 100mA	40mV 76mA	50mV 60mA
Output Voltage Measurement Resolution	0.2mV	0.27mV	0.4mV	0.5mV	0.7mV	1mV	1.3mV	1.7mV
Output Current Measurement Resolution	6mA	6mA	4mA	3.3mA	2.5mA	1.7mA	1.2mA	1mA
TEMPERATURE COEFFICIENCE Voltage & Current	100nnm/°C a	ıfter a 30 minute v	varm un					
REMOTE SENSE COMPENSATION \			warm-up					
Voltage	1V	1V	1V	1V	1V	1.5V	2V	2V
PROTECTION 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	5~55V
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	500mV 3~33A
Setting Accuracy	4000mA	3600mA	2400mA	2000mA	1520mA	1000mA	760mA	600mA
Under Voltage Limit(UVL) Setting Range	0 0,5 1	0~8.4V	0~13.12V	0~15.75V	0~21V	0~31.5V	0~42V	0~52.5V
Over Temperature Protection(OHP) Operation Incorrect Sensing Connection Protection(SENSE) Operation	Turn the outp							
Low AC Input Protection (AC-FAIL) Operation	Turn the outp							
Shutdown (SD) Operation	Turn the outp	ut off.						
Power Limit (POWER LIMIT) Operation	Over power li							
Value (Fixed)	Approx. 105%	of rated output p	power					
USB	TypeAstless	Tuno P. Classe C	od: 1 1/2 0 UCD C	assi CDC/C	numication - D	iico Class)		
LAN			ed: 1.1/2.0, USB Cl s, User Password, (ıbnet Mask	
RS-232 / RS-485			IA485 Specification		,			
GPIB (Factory Option)	SCPI - 1993, I	EEE 488.2 compli						
ISOLATED ANALOG CONTROL INTE			programatica	maggire				
Voltage Control Current Control			programming and for programming a		t			
ENVIRONMENTAL CONDITIONS								
Operating Temperature	0°C ~ 50°C (*			·				·
Storage Temperature Operating Humidity	-25°C ~ 70°C	H; No condensat	ion					
Storage Humidity	90% RH or les	ss; No condensat						
Altitude	Maximum 200							
	1001							
INPUT CHARACTERISTICS	100Vac to 240)Vac, 50Hz to 60⊦ ac	tz, single phase					
Nominal Input Rating	251/20 2651/							
Nominal Input Rating Input Voltage Range	85Vac ~ 265Va 47Hz ~ 63Hz							
Nominal Input Rating Input Voltage Range Input Frequency Range Maximum Input Current 100Vac/200Vac(A)	47Hz ~ 63Hz 21/11							
Nominal Input Rating Input Voltage Range Input Frequency Range Maximum Input Current 100Vac/200Vac(A) Inrush Current	47Hz ~ 63Hz 21/11 Less than 50A							
Nominal Input Rating Input Voltage Range Input Frequency Range Maximum Input Current 100Vac/200Vac(A) Inrush Current Maximum Input Power	47Hz ~ 63Hz 21/11 Less than 50A 2000VA							
Nominal Input Rating Input Voltage Range Input Frequency Range Maximum Input Current 100Vac/200Vac(A) Inrush Current	47Hz ~ 63Hz 21/11 Less than 50A							
Nominal Input Rating Input Voltage Range Input Frequency Range Maximum Input Current Inrush Current Maximum Input Power Power Factor 100Vac/200Vac(A) 100Vac/200Vac	47Hz ~ 63Hz 21/11 Less than 50A 2000VA 0.99/0.98		82/85	82/85	83/86	83/86	84/87	84/87
Nominal Input Rating Input Voltage Range Input Frequency Range Maximum Input Current Inrush Current Maximum Input Power Power Factor Hold-up Time Input Rating 100Vac/200Vac	47Hz ~ 63Hz 21/11 Less than 50A 2000VA 0.99/0.98 20ms or great	ter	82/85	82/85	83/86	83/86	84/87	84/87

SPECIFICATIONS							
MODEL	PSU 60-25	PSU 80-19	PSU 100-15	PSU 150-10	PSU 300-5	PSU 400-3.8	PSU 600-2.6
OUTPUT RATINGS							
Rated Output Voltage (*1)	60V	80V	100V	150V	300V	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)	1300W	1320W	1300W	1300W	1300W	1320W	1300W
CVp-p(10 ~ 20MHz) p-p (*6)	60mV	80mV	80mV	100mV	150mV	200mV	300mV
CVrms(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
LOAD REGULATION			T	1			
Voltage(*4)	8mV 10mA	10mV 8.8mA	12mV 8mA	17mV 7mA	32mV 6mA	42mV 5.76mA	62mV 5.52mA
Current(*11) LINE REGULATION	TOTTIA	AITIO.0	oma	7mA	OTTA	3.76IIIA	3.32IIIA
Voltage(*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						
External Voltage Control Output Voltage		earity:±0.5% of rate					
External Voltage Control Output Current External Resistor Control Output Voltage		earity: ±1% of rated					
External Resistor Control Output Voltage		earity:±1% of rated earity:±1.5% of rate					
Output Voltage Monitor	Accuracy: ±1%	carry , _ 11.5 / 5 01 1 acc	a output carrent				
Output Current Monitor	Accuracy: ±1%	ee					
Shutdown Control Output On/Off Control	Turns the output Possible logic se	off with a LOW (0V	to 0.5V) or short-c	ircuit			
Cutput City Cit Control		on using a LOW (0V	to 0.5V) or short-c	ircuit, turn the out	out off using a HI	GH (4.5V to 5V) or	open-circuit:
		on using a HIGH (4					
Alarm Clear Control	Clear alarms wit	h a LOW (0V to 0.5V	') or short-circuit			•	
CV/CC/ALM/PWR ON/OUT ON Indicator Trigger Out		en collector output; vel output = 0.8V; n				ent = 8mA	
Trigger In		vel input voltage = (
FRONT PANEL							
Display, 4 digits, Voltage Accuracy 0.1%+	120mV	160mV	200mV	300mV	600mV	800mV	1200mV
Current Accuracy 0.2%+ Indications	75mA	57mA	45mA	30mA	15mA	11.4mA	7.8mA
Buttons		:V, CC, V, A, VSR, ISF ck), PROT(ALM_CL				LED's: ALM, ERR	
Knobs	Voltage, Current		n,, i unction(IVII), I	icac(IVIZ), aet(IVI3),	Jilli, Output		
USB Port	Type A USB con	nector					
TRANSIENT RESPONSE TIME (*10)					_		
Transient Response Time	1ms	lms	1ms	2ms	2ms	2ms	2ms
OUTPUT RESPONSE TIME	80ms	150ms	150ms	150ms	150ms	200ms	250ms
Rise Time(*8) Rated load No load	80ms	150ms	150ms	150ms	150ms	200ms	250ms
Fall Time(*9) Rated load	80ms	150ms	150ms	150ms	150ms	200ms	250ms
No load	1100ms	1200ms	1500ms	2000ms	2500ms	3000ms	4000ms
PROGRAMMING AND MEASUREME Output Voltage Programming Accuracy 0.05%+	30mV	40mV	50mV	75mV	150mV	200mV	300mV
Output Current Programming Accuracy 0.2%+	25mA	19mA	15mA	10mA	5mA	3.8mA	2.6mA
Output Voltage Programming Resolution	2mV	2.7mV	3.4mV	5.2mV	10.2mV	13.6mV	20.4mV
Output Current Programming Resolution Output 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
Output Current Measurement Accuracy 0.2%+	50mA	38mA	30mA	20mA	10mA	7.6mA	5.2mA
Output Voltage Measurement Resolution Output Current Measurement Resolution	2mV	2.7mV	3.4mV	5.2mV	10.2mV 0.19mA	13.6mV	20.4mV
TEMPERATURE COEFFICIENCE	0.8mA	0.65mA	0.5mA	0.34mA	0.19mA	0.13mA	0.09mA
Voltage & Current	100ppm/°C afte	r a 30 minute warm	-up				
REMOTE SENSE COMPENSATION V			٠.				
Voltage	3V	4V	5V	5V	5V	5V	5V
PROTECTION FUNCTION							
Over Voltage Protection(OVP) Setting Range	5~66V	5~88V	5~110V	5~165V	5~330V	5~440V	5~660V
Setting Accuracy Over Current Protection(OCP) Setting Range	600mV 2.5~27.5A	800mV 1.9~20.9A	1000mV 1.5~16.5A	1500mV 1~11A	3000mV 0.5~5.5A	4000mV 0.38~4.18A	6000mV 0.26~2.86A
Setting Accuracy	500mA	380mA	300mA	200mA	100mA	76mA	52mA
Under Voltage Limit(UVL) Setting Range	0~63V	0~84V	0~105V	0~157.5V	0~315V	0~420V	0~630V
Over Temperature Protection(OHP) Operation	Turn the output Turn the output						
Incorrect Concing Connection Dustration (CENCE)	Lura the eutout	OTT.					
		off					
Incorrect Sensing Connection Protection(SENSE) Operation Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) Operation	Turn the output Turn the output Turn the output						
Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) Operation Power Limit (POWER LIMIT) Operation	Turn the output Turn the output Over power limi	off. t					
Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) Operation	Turn the output Turn the output Over power limi	off.	r				
Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) Operation Power Limit (POWER LIMIT) Operation Value (Fixed) INTERFACE CAPABILITIES	Turn the output Turn the output Over power limi	off. t	r				
Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) Operation Power Limit (POWER LIMIT) Operation Value (Fixed) INTERFACE CAPABILITIES USB	Turn the output Turn the output Over power limi Approx. 105% o	off. t f rated output powe peB: Slave, Speed: 1	.1/2.0, USB Class:				
Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) Operation Power Limit (POWER LIMIT) Operation Value (Fixed) INTERFACE CAPABILITIES USB LAN	Turn the output Turn the output Over power limi Approx. 105% o TypeA: Host, Ty MAC Address, I	off. t f rated output powe DeB: Slave, Speed: 1 DNS IP Address, Us	.1/2.0, USB Class: er Password, Gatev				
Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) Operation Power Limit (POWER LIMIT) Operation Value (Fixed) INTERFACE CAPABILITIES USB LAN RS-232 / RS-485	Turn the output Turn the output Over power limi Approx. 105% o TypeA: Host, Ty MAC Address, I Complies with t	off. t f rated output powe DeB: Slave, Speed: 1 DNS IP Address, Us the EIA232D / EIA48	.1/2.0, USB Class: er Password, Gatev 5 Specifications				
Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) Operation Power Limit (POWER LIMIT) Operation Value (Fixed) INTERFACE CAPABILITIES USB LAN RS-232 / RS-485 GPIB (Factory Option)	Turn the output Turn the output Over power limi Approx. 105% o TypeA: Host, Ty MAC Address, I Complies with t SCPI - 1993, IEE	off. t f rated output power oeB: Slave, Speed: 1 DNS IP Address, Us he EIA232D / EIA48 E 488.2 compliant i	.1/2.0, USB Class: er Password, Gatev 5 Specifications				
Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) Operation Power Limit (POWER LIMIT) Operation Value (Fixed) INTERFACE CAPABILITIES USB LAN RS-232 / RS-485 GPIB (Factory Option) ISOLATED ANALOG CONTROL INTE Voltage Control	Turn the output Turn the output Over power limi Approx. 105% o TypeA: Host, Ty MAC Address, I Complies with t SCPI - 1993, IEE RFACE (FACTO) Using 0-5V or 0-	off. t f rated output power DeB: Slave, Speed: 1 DNS IP Address, Us the EIA232D / EIA48 E 488.2 compliant in RY OPTION) 10V signals for programs	.1/2.0, USB Class: er Password, Gatev 5 Specifications nterface gramming and mea	way IP Address, Ins			
Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) Operation Power Limit (POWER LIMIT) Operation Value (Fixed) INTERFACE CAPABILITIES USB LAN RS-232 / RS-485 GPIB (Factory Option) ISOLATED ANALOG CONTROL INTE Voltage Control Current Control	Turn the output Turn the output Over power limi Approx. 105% o TypeA: Host, Ty MAC Address, I Complies with t SCPI - 1993, IEE RFACE (FACTO) Using 0-5V or 0-	off. t f rated output power DeB: Slave, Speed: 1 DNS IP Address, Us the EIA232D / EIA48 E 488.2 compliant in RY OPTION)	.1/2.0, USB Class: er Password, Gatev 5 Specifications nterface gramming and mea	way IP Address, Ins			
Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) Operation Power Limit (POWER LIMIT) Operation Value (Fixed) INTERFACE CAPABILITIES USB LAN RS-232 / RS-485 GPIB (Factory Option) ISOLATED ANALOG CONTROL INTE Voltage Control Current Control ENVIRONMENTAL CONDITIONS	Turn the output Turn the output Over power limi Approx. 105% o TypeA: Host, Ty MAC Address, I Complies with t SCPI - 1993, IEE RFACE (FACTOI Using 0-5V or 0 Using 4-20mA c	off. t f rated output powe peB: Slave, Speed: 1 DNS IP Address, Us he EIA232D / EIA48 E 488.2 compliant is RY OPTION) 10V signals for progurrent signals for progurrent	.1/2.0, USB Class: er Password, Gatev 5 Specifications nterface gramming and mea	way IP Address, Ins			
Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) Operation Power Limit (POWER LIMIT) Operation Value (Fixed) INTERFACE CAPABILITIES USB LAN RS-232 / RS-485 GPIB (Factory Option) ISOLATED ANALOG CONTROL INTE Voltage Control Current Control ENVIRONMENTAL CONDITIONS Operating Temperature	Turn the output Turn the output Over power limi Approx. 105% o TypeA: Host, Ty MAC Address, I Complies with t SCPI - 1993, IEE RFACE (FACTO) Using 0-5V or 0 Using 4-20mA c 0°C ~ 50°C (*14	off. t f rated output powe peB: Slave, Speed: 1 DNS IP Address, Us he EIA232D / EIA48 E 488.2 compliant is RY OPTION) 10V signals for progurrent signals for progurrent	.1/2.0, USB Class: er Password, Gatev 5 Specifications nterface gramming and mea	way IP Address, Ins			
Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) Operation Power Limit (POWER LIMIT) Operation Value (Fixed) INTERFACE CAPABILITIES USB LAN RS-232 / RS-485 GPIB (Factory Option) ISOLATED ANALOG CONTROL INTE Voltage Control Current Control ENVIRONMENTAL CONDITIONS Operating Temperature Storage Temperature Operating Humidity	Turn the output Turn the output Over power limi Approx. 105% o TypeA: Host, Ty MAC Address, I Complies with t SCPI - 1993, IEE RFACE (FACTO) Using 0-5V or 0 Using 4-20mA c 0°C ~ 50°C (*14-25°C ~ 70°C 20% ~ 85% RH;	off. t f rated output power DOBE: Slave, Speed: 1 DONS IP Address, Us the EIA232D / EIA48 E 488.2 compliant in RY OPTION) 10V signals for progurrent signals for programmer.	.1/2.0, USB Class: er Password, Gatev 5 Specifications nterface gramming and mea	way IP Address, Ins			
Low AC Input Protection (AC-FAIL) Operation Shutdown (SD) Operation Power Limit (POWER LIMIT) Operation Value (Fixed) INTERFACE CAPABILITIES USB LAN RS-232 / RS-485 GPIB (Factory Option) ISOLATED ANALOG CONTROL INTE Voltage Control Current Control Current Control ENVIRONMENTAL CONDITIONS Operating Temperature Storage Temperature Storage Temperature Operating Humidity Storage Humidity	Turn the output Turn the output Over power limi Approx. 105% o TypeA: Host, Ty MAC Address, I Complies with t SCPI - 1993, IEE RFACE (FACTOI Using 0-5V or 0 Using 4-20mA c 0°C ~ 50°C (*14 -25°C ~ 70°C 20% ~ 85% RH; 90% RH or less	off. t f rated output powe peB: Slave, Speed: 1 DNS IP Address, Us the EIA232D / EIA48 E 488.2 compliant i RY OPTION) 10V signals for progurrent signals for progurrent of progurrent of the program of t	.1/2.0, USB Class: er Password, Gatev 5 Specifications nterface gramming and mea	way IP Address, Ins			
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- Notes: *1. Minimum voltage is guaranteed to maximum 0.2% of the rated output voltage.

 *2. Minimum current is guaranteed to maximum 0.4% of the rated output current.

 *3. At 85-132Vac or 170-265Vac, constant load.

 *4. From No-load to Full-load, constant input voltage. Measured at the sensing point in Remote Sense.

 *5. Measure with JEITA RC-9131B (1:1) probe

 *6. Measurement frequency bandwidth is 10Hz to 20MHz.

 *7. Measurement frequency bandwidth is 5Hz to 1MHz.

 *8. From 10% to 90% of rated output voltage, with rated resistive load.

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

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

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.

*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

*14. If install the front panel filter kit, the temperature is guaranteed to 40 °C.

PSU-01B Bus bar for 2 units in parallel connection GPW-001 UL/CSA power cord 3m ,PSU option PSU-01C Cable for 2 units in parallel connection GPW-002 VDE power cord 3m, PSU option PSU-02B Bus bar for 3 units in parallel connection GPW-003 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 RI45

GTL-262 RS-485 Slave cable PSU-485 RS485 Cable with DB9 connector kit

PSU-001 Front panel filter kit (factory Installed)

PSU-01A Joins a vertical stack of 2 PSU units together. 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

PSU-03A Joins a vertical stack of 4 PSU units together. 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)

PSU-GPIB GPIB Interface card (factory option) GRM-001 Slide bracket 2pcs/set ,PSU option

FREE DOWNLO

Driver LabView Driver

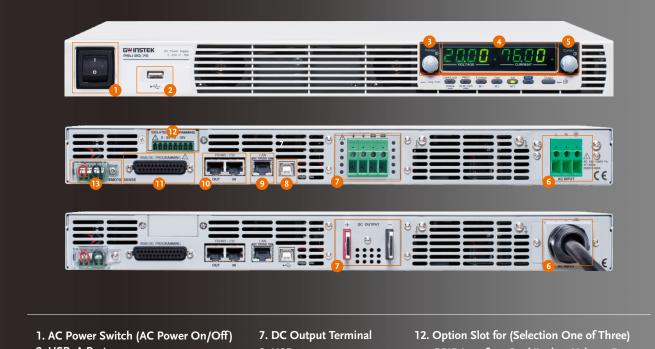
Specifications subject to change without notice. PSU-SeriesGD1DS

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

PANEL INTRODUCTION



- 2. USB A Port
- 3. Voltage Knob
- 4. Display Area
- 5. Current Knob
- 6. AC Input (HV:Wire Clamp Connector)
- 8. USB
- 9. LAN
- 10. RS 485/RS 232
- 11. Analog Control Interface
- GPIB Interface Card/Isolate Voltage Remote Control Card/Isolate Current Remote Control Card
- 13. Remote Sense