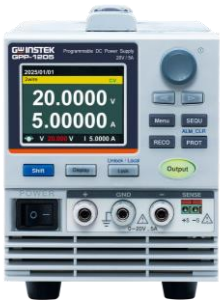
GOOD WILL INSTRUMENT CO., LTD.
No. 7-1, Jhongsing Road, Tucheng City, Taipei County, 236, Taiwan
T (886) 2 2268-0389 F (886)2 2268-0639 www.gwinstek.com

GPP-1205 & GPP-1323 Specification

The specifications apply when the GPP-1205/1323 are powered on for at least 30 minutes under +20 °C to +30 °C.




European Jack




European Jack



Rear Panel (including optional GPIB)

SPECIFICATIONS			
		GPP-1323	GPP-1205
OUTPUT RATING			
Output Voltage		0.000 V to 32.000 V	0.000 V to 20.000 V
Output Current		0.0000 A to 3.0000 A	0.0000 A to 5.0000 A
Output Power		96 W	100 W
CONSTANT VOLTAGE OPERATION			
Line Regulation		± (0.01 % of setting + 3 mV)	
Load Regulation		≤ 0.01 % + 3 mV (rating current ≤ 3 A)	
		≤ 0.02 % + 5 mV (rating current > 3 A)	
Transient Response		< 100 μs	
Ripple Noise		0.8 mVrms	
Setting Range		0 V to 33.600 V	0 V to 21.000 V
Rise Time		≤ 100 ms	
Fall Time		≤ 100 ms	
Maximum Remote Sensing Compensation Voltage (Single Line)		0.5 V	
Temperature Coefficient (TYP.)		300 ppm/°C	
CONSTANT CURRENT OPERATION			
Line Regulation		≤ 0.1 % + 3 mA	
Load Regulation		≤ 0.1 % + 3 mA	
Setting Range		0 A to 3.1500 A	0 A to 5.2500 A
Ripple Noise (Arms)		≤ 2 mArms	
Temperature Coefficient (TYP.)		300 ppm/°C	
RESOLUTION			
Voltage	Programming/Readback	1 mV / 0.1 mV	
Current	Programming/Readback	(High) 0.1 mA / 0.01 mA;	

		(Middle) 10 μA / 1 μA; (Low) 1 μA/ 0.1 μA	
METER			
Full Scale	Voltage/Current	33.6000 V / 3.1500 A	21.0000 V / 5.2500 A
Programming Resolution	Voltage/Current	5 digits / 5 digits	
Readback Resolution	Voltage/Current	6 digits / 6 digits	
Setting Accuracy		Voltage: ± (0.03 % of reading + 10 mV)	
		Current: ± (0.3 % of reading + 10 mA) (H)	
		Current: ± (0.3 % of reading + 1 mA) (M)	
		Current: ± (0.3 % of reading + 0.1 mA) (L)	
Readback Accuracy		Voltage: ± (0.03 % of reading + 10 mV)	
		Current: ± (0.3 % of reading + 10 mA) (H)	
		Current: ± (0.3 % of reading + 1 mA) (M)	
		Current: ± (0.3 % of reading + 0.1 mA) (L)	
DC LOAD MODE			
Display	Voltage	3.000 V to 32.000 V	3.000 V to 20.000 V
	Current	0 A to 3.0000 A	0 A to 5.0000 A
	Power	96 W	100 W
CV Mode	Setting Range	3.000 V to 32.000 V	3.000 V to 20.000 V
	Setting/Readback Accuracy	≤ 0.1 % + 30 mV	
	Resolution	1 mV	
CC Mode	Setting Range	0 A to 3.0000 A	0 A to 5.0000 A
	Setting/Readback Accuracy	≤ ± 0.3 % + 10 mA	
	Resolution	0.1 mA	
PROTECTION			
OVP	Setting Range	1.8 V to 35.2 V	1.0 V to 22.0 V
	Setting Accuracy	± 100 mV	
	Operation	Turns the output off, displays OVP	
OCP	Setting Range	0.15 A to 3.3 A	0.25 A to 5.5 A
	Setting Accuracy	± 20 mA	
	Operation	Turns the output off, displays OCP	
OTP	Operation	Turns the output off, displays OTP	
Insulation Resistance		Between chassis and terminal: 20 MΩ or above (DC 500V)	
		Between chassis and AC power cord: 30 MΩ or above (DC 500V)	
SERIES AND PARALLEL CAPABILITY			
Parallel Number		4 units	
Series Number		4 units	
ADVANCED FUNCTION			
Trigger Signal *1	Trigger Input	A high- or low-level CMOS signal is applied for 100 μs or longer.	
		It receives a pulse to perform actions like power output, V/I set operation or memory recall.	
	Trigger Output	Trigger output: approx. 3.3 V Pulse width: approx. 1ms, Output impedance: approx. 50 Ω	
		It outputs a pulse when power output, V/I set operation or memory recall is executed.	
Status Signal Out *1 *2	OUT ON/OFF Status	Turns on when the output is on	
	CV Status	Turns on during CV operation	

	CC Status	Turns on during CC operation
	ALM Status	Turns on when an alarm has been activated
	PWR ON Status	Turns on when the power is turned on
GENERAL SPECIFICATIONS		
Display		2.4-inch TFT LCD
Interface	LAN	MAC Address, Gateway IP Address, Instrument IP Address, Subnet Mask
	USB	Type A: Host, Type B: Slave, Speed: 1.1/2.0, USB-CDC/TMC
	GPIB (Factory Optional)	SCPI-1993, IEEE 488.2 compliant interface
Operating Environment		Indoor use, Overvoltage Category II, Altitude: ≤ 2000 m, Ambient temperature: 0 °C to 40 °C, Relative humidity: 20 % to 80 % RH; No condensation
Storage Environment		Ambient temperature: -20 °C to 70 °C, Relative humidity: 20 % to 85 % RH; No condensation
Power Source		AC (100 V, 120 V, 220 V, 240 V) ± 10 %, 50 or 60 Hz
Power Consumption		300 VA
Max. Inrush Current		30 A max or less
Dimensions & Weight		107 mm x 124 mm x 313 mm (W x H x D) (not including protrusions), Approx. 5.5 kg

This information is subject to change without notice.

Note:
(*1) The specification refers to the highest resolution.
(*2) Only channel 1 and channel 2 can perform series and parallel functions.

ORDERING INFORMATION

GPP-1205 100 W Single Channel Programming Linear DC Power Supply (USB, LAN) (20 V /5 A)
GPP-1323 96 W Single Channel Programming Linear DC Power Supply (USB, LAN) (32 V/3 A)

ACCESSORIES:
Power Cord x 1, Packing List x 1, Test lead: Non-European: GTL-104A x 1 Test lead: European: GTL-204A x 1

OPTION (Manufacturer Installed Only)

GPIB interface

OPTIONAL ACCESSORIES

GTL-303 RF Cable, for Trigger In/Out use
GTL-246 USB Cable (USB 2.0 A-B Type, approx. 1200mm)
GRA-441-J Rack Mount Kit for JIS type
GRA-441-E Rack Mount Kit for EIA type

FREE DOWNLOAD

PC Software, LabVIEW Driver