

PPX-Series

Programmable High-Precision DC Power Supply

FEATURES

- CV, CC Priority Start Function
- Four Levels of Current Measurement Resolution (min. 0.1µA)/Two Levels of Voltage Measurement Resolution (min. 0.1mV)
- Power Output ON/OFF Delay Function
- Adjustable Voltage and Current Slew Rate
- Bleeder Circuit Control
- Delayed Over-current Protection(OCP Delay)
- Sequential Power Output Function
- Remote Sensing Function
- Data Logger
- 10 Sets of Memory Function
- Over Voltage Protection, Under Voltage Limit, Over Current Protection, Over Temperature Protection, AC Alarm Function
- Supports K Type Thermocouple Temperature Measurement
- Interfaces: USB, LAN, RS-232, RS-485, Analog Control; Opt: GPIB
- Size: 3U High, in Line with 1/4 Rack



The PPX-Series programmable high-precision DC power supplies include six models; PPX-1005(10V/5A/50W), PPX-2002(20V/2A/40W), PPX-2005(20V/5A/100W)), PPX-3601(36V/1A/36W), PPX-3603(36V/3A/108W), and PPX-10H01(100V/1A/100W). This series has the output low noise (0.35mVrms) and fast transient response characteristics (<50µs) of conventional linear power supplies. It also provides constant voltage and constant current priority output modes, and the series can also set the voltage and current rising/falling slew rates separately, and the delay time for the output to be turned on and off.

The PPX-Series has four current levels and two voltage levels to provide users with high-precision measurements, and via the Data Logger function, the measurement records can be stored in the USB for long-term measurement and recording of IoT devices, portable devices, wearable devices, and sensor components.

In order to extend the use time of portable devices and wearable devices, manufacturers are not only committed to improving the operating efficiency of the circuit, but also reducing standby power consumption as much as possible. In order to satisfy users' low-power measurement applications, GW Instek has launched the PPX-Series with current measurement resolutions (0.1μ A, 1μ A, 10μ A, 0.1mA) and voltage measurement resolutions (0.1mV, 1mV) to provide power for portable devices and wearable devices. When the device enters the sleep mode or the standby mode, the PPX series can still measure the subtle current changes of the DUT.

The PPX-Sseries provides the Test Sequence function, which allows users to arbitrarily define output waveforms. The voltage rising or falling time and the voltage maintenance time of each step can be set. For the operation, users can directly edit parameters on the front panel of the PPX-Series, or the CSV file can be edited via computer and imported into the PPX-Series, and the PPX-Series can be remotely edited. In addition, the OCP Delay function of the PPX-Series allows users to flexibly adjust the time to enable the over-current protection according to the characteristics of the DUT to protect the DUT and at the same time to test the current change of the DUT within a certain period of time.

Other than voltage, current, and power measurement, the PPX-Series also supports temperature measurement. While collocating with a K Type Thermocouple, the temperature range can be measured from -200°C ~ +1372°C. Supported standard communication interfaces include USB, LAN, RS-232, RS-485 and optional GPIB interface.

DISPLAY MODE



Voltage and Current



Voltage, Current and Sequence Test

The PPX-Series has four display modes, namely 1) voltage and current 2) voltage, current and wattage 3) voltage, current and Sequence Test 4)voltage, current and temperature measurement,



Voltage, Current and Wattage



Voltage, Current and Temperature Measurement

which are convenient for users to switch to different display modes according to test requirements.



REMOTE SENSING CONNECTION DIAGRAM

The Remote Sensing function can be used to compensate for the voltage drop caused by the resistance on the test connection lead from the power output to the load. PPX-1005/2002/2005/3601/3603 compensates for voltages up to 1 volt, and PPX-10H01 compensates

for voltages up to 3 volts. When testing, choose a test connection lead with a voltage drop less than the compensation voltage of the PPX series as much as possible.

TEMPERATURE MEASUREMENT



Blue: Temperature Control on with no GTL-205A Connected



White: Temperature Control on with GTL-205A Connected

The PPX-Series can measure DUT temperature while outputting power. Before measuring the temperature, please use the optional accessory GTL-205A (temperature probe adapter with K-type thermocouple) to connect the DUT and TC input terminals on the front panel of the PPX-Series respectively. During the measurement process, users can set the monitoring



Green: Output Safe is Activated and Output is on with GTL-205A Connected



Red: The Alarm of Short Circuit Occurs From Temperature Measurement

temperature for the DUT. Once the measurement temperature reaches the monitoring temperature value, the PPX-Series will stop the output. The PPX-Series can measure the temperature range of -200.0°C ~1372.0°C (-328.0°F~2501.6°F). Users can choose the display unit as °C or °F according to the requirement.

D. DATA LOGGER



Data Logger Function



The PPX-Series can record the measured voltage, current and temperature data to a USB flash drive or can be remotely controlled to read the data. Data sampling interval is 0.1~999.9 seconds.

Save Data Log Into USB Disk

SEQUENCE TEST



SEQ Run in Cycle Mode

The Sequence Test function allows users to plan the PPX-Series to execute a sequential power output. The PPX-Series will automatically execute the planned power output to the DUT to realize automated measurement. The PPX-Series can store



SEQ Stop in Cycle Mode

10 sets of edited Test Scripts in the internal memory, and can also be connected to a USB flash drive to store Test Scripts in the USB flash drive.

F. V/I SLEW RATE

Model	R_V Slew Rate/ F_V Slew Rate Setting Range
PPX-1005	0.0001V/ms ~ 0.1V/ms
PPX-2002	0.0001V/ms ~ 0.2V/ms
PPX-2005	0.0001V/ms ~ 0.2V/ms
PPX-3601	0.0001V/ms~0.36V/ms
PPX-3603	0.0001V/ms~0.36V/ms
PPX-10H01	0.001V/ms ~ 0.5V/ms

Voltage Rising/Falling Slew Rate

The PPX-Series can adjust the slew rate of current and voltage. Via setting the rising and falling time of voltage and current, users can verify the performance of the DUT during the voltage/current changes. In addition, the adjustment of the slew rate slows down the voltage transfer, which can effectively avoid the damage of the inrush current to the DUT, therefore, the series is especially suitable for the testing of capacitive loads and motors.

G. ANALOG REMOTE CONTROL



External Control of Output

The PPX-Series supports the analog control function, including external voltage to control voltage output/current output, external resistance to control voltage output/current output, external control of power output, trigger input/trigger output, and voltage/current monitoring.

PANEL INTRODUCTION



H. MULTIPLE UNIT CONNECTION



Multiple Unit Connection

The PPX-Series can connect up to 31 units. The PC is connected to the first unit of PPX through GTL-260, and the remaining PPX units are connected in a daisy-chained method via GTL-262. When using PPX-Series Multiple Unit Connection for remote program control and slave expansion, there is no need to use other remote control equipment (E.g. switch/Hub), which can help users save equipment purchase costs.

Model		PPX-1005	PPX-2002	PPX-2005	PPX-3601	PPX-3603	PPX-10H01	
DC Output Mo	ode	10.0001/	20.000)/	20.0001/	36.000)/	26.0001/	100.001/	
Output Voltage Output Current	t in the second s	5.0000A	20.000V 2.0000A	20.000V 5.0000A	36.000V 1.0000A	36.000V 3.0000A	1.0000A	
Output Power		50W	40W	100W	36W	108W	100W	
CONSTANT V	OLTAGE OPERATIO	N	(0.01% of optime ()m)()	(0.01% af anthing ()m)()	(0.019/ of optime (2m)/)	· (0.019/ of optime : 2 m)()	· (0.019/ of cotting : 7m)/)	
Line Regulation	n	±(0.01% of setting+1mV) ±(0.01% of setting+2mV)	\pm (0.01% of setting+1mV) \pm (0.01% of setting+2mV)	±(0.01% of setting+1mV) ±(0.01% of setting+3mV)	±(0.01% of setting+3mV) ±(0.01% of setting+3mV)	$\pm (0.01\% \text{ of setting+3mV})$ $\pm (0.01\% \text{ of setting+4mV})$	±(0.01% of setting+7mV) ±(0.01% of setting+7mV)	
Transient Resp	onse ^{*1}	<50µs	<50µs	<50µs	<50µs	<50µs	<100µs	
Ripple Noise(V	′rms²/Vpp³) Pated load	0.35mVrms/<6mVpp 20ms	0.5mVrms/<8mVpp 50ms	0.5mVrms/<8mVpp 50ms	0.8mVrms/<10mVpp 50ms	0.8mVrms/<10mVpp 50ms	1.2mVrms/<15mVpp	
kise tille j	No load	20ms	50ms	50ms	50ms	50ms	100ms	
Fall Time [®] I	Rated load	10ms	20ms	20ms	20ms	20ms	50ms	
Setting Range	NO 1020 (105%)	100ms 0V ~ 10.5V	150ms 0V ~ 21.0V	150ms 0V ~ 21.0V	150ms 0V ~ 37.8V	150ms 0V ~ 37.8V	250ms 0V ~ 105.0V	
Setting Resolut	tion	0.2mV	0.5mV	0.5mV	1mV	1mV	2mV	
Setting Accurac Remote Sensing Co	cy (23°C±5°C)	±(0.03% of setting+3mV)	±(0.03% of setting+5mV)	±(0.03% of setting+5mV)	±(0.03% of setting+8mV)	±(0.03% of setting+8mV)	±(0.03% of setting+20mV)	
Temperature Co	oefficient (TYP.)	100 ppm/°C	100 ppm/°C	100 ppm/°C	100 ppm/°C	100 ppm/°C	100 ppm/°C	
CONSTANT C	URRENT OPERATIO	N						
Line Regulation	n	±(0.02% of setting+250µA)	$\pm (0.02\%~of~setting + 100 \mu \text{A})$	±(0.02% of setting+250µA)	$\pm (0.02\%~of~setting + 50 \mu A)$	±(0.02% of setting+150µA)	\pm (0.02% of setting+50µA)	
Load Regulatio	n 	±(0.02% of setting+250μA)	±(0.02% of setting+100μA)	±(0.02% of setting+250μA)	±(0.02% of setting+50μA)	±(0.02% of setting+150μA)	±(0.02% of setting+50μA)	
Setting Range	(105%)	0A ~ 5.25A	0A ~ 2.1A	0A ~ 5.25A	400μA 0A ~ 1.050A	0A ~ 3.15A	0A ~ 1.050A	
Setting Resolut	tion	0.1mA	0.05mA	0.1mA	0.02mA	0.1mA	0.02mA	
Setting Accurate	cy (23°C±5°C)	±(0.05% of setting+3.0mA)	±(0.05% of setting+1.0mA)	±(0.05% of setting+3.0mA)	±(0.05% of setting+0.5mA)	±(0.05% of setting+1.5mA)	±(0.05% of setting+1.0mA)	
MEASUREMENT AND DISPLAY								
Voltage Range	Н	10.000V	20.000V	20.000V	36.000V	36.000V	100.00V	
Current David	L	1.0000V	2.0000V	2.0000V	3.6000V	3.6000V	10.000V	
Current Range	M	500.00mA	2.0000A 200.00mA	500.00mA	100.00mA	300.00mA	100.00mA	
	L	50.000mA	20.000mA	50.000mA	10.000mA	30.000mA	10.000mA	
Measuremont	LL Voltage(H)	5.0000mA 1mV	2.0000mA 1mV	5.0000mA 1mV	1.0000mA 1mV	3.0000mA 1mV	1.0000mA 10mV	
Resolution	Voltage(L)	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV	1mV	
	Current(H)	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	
	Current(L)	0.01mA 0.001mA	0.01mA 0.001mA	0.01mA 0.001mA	0.001mA 0.001mA	0.01mA 0.001mA	0.01mA 0.001mA	
	Current(LL)	0.0001mA	0.0001 mA	0.0001mA	0.0001mA	0.0001mA	0.0001mA	
Measurement	Voltage(H/L)	±(0.03% of rdg + 2mV)	±(0.03% of rdg + 4mV)	±(0.03% of rdg + 5mV)	±(0.03% of rdg + 6mV)	±(0.03% of rdg + 8mV)	±(0.03% of rdg + 15mV)	
Accuracy	Current(H/M)	±(0.05% of rdg + 2.5mA)	±(0.05% of rdg + 1.0mA)	±(0.05% of rdg + 2.5mA)	±(0.05% of rdg + 0.4mA)	±(0.05% of rdg + 1.2mA)	±(0.05% of rdg + 1.0mA)	
	Current(L/LL)	±(0.1% of rdg + 40µA)	\pm (0.1% of rdg + 24 μ A)	$\pm (0.1\% \text{ of } rdg + 40 \mu A)$	±(0.1% of rdg + 16µA)	±(0.1% of rdg + 28µA)	±(0.1% of rdg + 24μA)	
751 (858 17) 185	Temperature Coefficient*(TYP.)	200 ppm/°C	200 ppm/°C	200 ppm/°C	200 ppm/°C	200 ppm/°C	200 ppm/°C	
Temperature	Bango	200°C~+1372°C						
(K-Type Thermo	ocouple) Resolution	0.25°C						
PROTECTION	Accuracy	±(0.5% + 2°C)						
PROTECTION	Operation	Turns the output off display	s OVP and lights ALARM					
Protection(OVF	P) Setting Range	0.5V ~ 11.0V	1.0V ~ 22.0V	1.0V ~ 22.0V	1.8V ~ 39.6V	1.8V ~ 39.6V	5.0V ~ 110.0V	
	Setting Accuracy	(5% to 110% of the rated ou	tput voltage)					
Over Current	Operation	Turns the output off, display	s OCP and lights ALARM					
Protection(OCF	P) Setting Range	0.25A ~ 5.5A	0.1A ~ 2.2A	0.25A ~ 5.5A	0.05A ~ 1.1A	0.15A ~ 3.3A	0.05A ~ 1.1A	
	Setting Accuracy	(5% to 110% of the rated ou ±(1% of rating)	tput current)					
Over Temperate	ure Operation	Turns the output off, display	s OTP and lights ALARM					
OTHER	-)							
Interface Capa	bilities LAN	MAC Address, DNS IP Addr	ess, User Password, Gateway I	P Address, Instrument IP Add	ress, Subnet Mask			
	USB	Type A: Host, Type B: Slave,	Speed: 1.1/2.0, USB-CDC	ding the connector)				
Nominal Input	Voltage"	100Vac / 120Vac / 220Vac / 2	240Vac(±10%), 50Hz / 60Hz, s	ingle phase				
		L						
Input Frequenc	y Range	47Hz ~ 63Hz	204	204	25.4	10.1	304	
Input Frequenc Max. Inrush Cur Max. Power Con	y Range rent sumption	47Hz ~ 63Hz 25Amax 200VA	20Amax 150VA	30Amax 300VA	35Amax 150VA	40Amax 300VA	30Amax 300VA	
Input Frequenc Max. Inrush Cur Max. Power Con Operaing Temp	y Range rent sumption perature	47Hz ~ 63Hz 25Amax 200VA 0°C ~ 40°C -20°C ~ 70°C	20Amax 150VA	30Amax 300VA	35Amax 150VA	40Amax 300VA	30Amax 300VA	
Input Frequenc Max. Inrush Cur Max. Power Con Operaing Temp Storage Temper Operating Hum	y Range rent sumption perature ature idity	4/Hz ~ 63Hz 25Amax 200VA 0 ° C ~ 40 ° C -20 ° C ~ 70 ° C 20% ~ 80% RH; No condens	20Amax 150VA sation	30Amax 300VA	35Amax 150VA	40Amax 300VA	30Amax 300VA	
Input Frequenc Max. Inrush Cur Max. Power Con Operaing Temp Storage Temper Operating Hum Storage Humidi Dimensions & V	y Range rent sumption perature ature idity ty Weight	47Hz - 63Hz 25Amax 200VA 0°C ~ 40°C -20°C ~ 70°C 20% ~ 85% RH; No condens 20% ~ 85% RH; No condens 107(W) x 124(H) x 313(D) n	20Amax 150VA sation sation mm (not including protrusions	30Amax 300VA	35Amax 150VA	40Amax 300VA	30Amax 300VA	
Input Frequenc Max. Inrush Cur Max. Power Con Operaing Temp Storage Temper Operating Hum Storage Humidi Dimensions & V NOTE: *1. Time for ou	y Range rent sumption serature ature idity ty Veight tput voltage to recover within :	47Hz - 63Hz 25Amax 200VA 0°C ~ 40°C -20°C ~ 70°C 20% ~ 80% RH; No condens 20% ~ 85% RH; No condens 107 (W) x 124(H) × 313(D) n (0.1% + 10mV) of its rated	20Amax 150VA sation sation mm (not including protrusions *4. From 10%-90% of rated o	30Amax 300VA); Approx. 5.5kg utput voltage, with rated resistiv	35Amax 150VA e load *7. Before connectin	40Amax 300VA	30Amax 300VA	
Input Frequenc Max. Inrush Curr Max. Power Con. Operaing Temp Storage Tempera Operating Humidi Dimensions & V NOTE: *1. Time for ou output for a *2. Measureme	y Range rent sumption berature ature tidity ty Weight tput voltage to recover within = 1 load change from 50% to 100	47Hz - 63Hz 25Amax 200VA 0°C ~ 40°C -20°C ~ 70°C 20% ~ 80% RH; No condens 20% ~ 85% RH; No condens 107(W) × 124(H) × 313(D) r :(0.1% + 10mV) of its rated % of its rated output current to 1 MHz	20Amax 150VA sation sation mm (not including protrusions *4. From 10%–90% of rated o *5. From 90%–10% of rated o *6. Temperature coefficient: af	30Amax 300VA); Approx. 5.5kg utput voltage, with rated resistiv utput voltage, with rated resistiv tra 30 minute warm-up	35Amax 150VA e load *7. Before connectir selector switche damaged the ins	40Amax 300VA	30Amax 300VA	
Input Frequenc Max. Inrush Curr Max. Power Con Operaing Temp Storage Temper Storage Humidi Dimensions & V NOTE: *1. Time for ou output for a *2. Measureme *3. Measureme	y Range rent sumption serature ature tidity ty Weight tput voltage to recover within = 1 load change from 50% to 100 run frequency bandwidth is 5 H nt frequency bandwidth is 10 H	47Hz - 63Hz 25Amax 200VA 0°C ~ 40°C -20°C ~ 70°C 20% ~ 80% RH; No condens 20% ~ 85% RH; No condens 107(W) × 124(H) × 313(D) r (0.1% + 10mV) of its rated % of its rated output current to 1 MHz /z to 20 MHz	20Amax 150VA sation nm (not including protrusions *4. From 10%–90% of rated o *5. From 90%–10% of rated o *6. Temperature coefficient: af	30Amax 300VA); Approx. 5.5kg utput voltage, with rated resistiv utput voltage, with rated resistiv ter a 30 minute warm-up	35Amax 150VA e load *7. Before connecti e load selector switche damaged the ins Specifications subject to c	40Amax 300VA	30Amax 300VA butlet, make sure the voltage ect position.It might be ong AC line voltage PPX-SeriesD1BH	
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