GOOD WILL INSTRUMENT CO., LTD.

N0. 7-1, Jhongsing Road, Tucheng Dist., New Taipei City, 236, Taiwan T (886) 2 2268-0389 F (886)2 2268-0639 www.gwinstek.com

PPX Specifications

The specifications apply when the PPX is powered on for at least 30 minutes under $+20^{\circ}C^{+}+30^{\circ}C$.

DC Output Mode		PPX-1005	PPX-2002	PPX-2005	PPX-3601	PPX-3603	PPX-10H01	
Output voltage		10.000V	20.000V	20.000V	36.000V	36.000V	100.00V	
Output current		5.0000A	2.0000A	5.0000A	1.0000A	3.0000A	1.0000A	
Output power		50W	40W	100W	36W	108W	100W	
CONSTANT V	OLTAGE OPERA	TION						
Line		±(0.01% of setting +	±(0.01% of setting +	±(0.01% of setting +	±(0.01% of setting +	±(0.01% of setting +	±(0.01% of setting	
regulation ^{*7}		1mV)	1mV)	1mV)	3mV)	3mV)	+ 7mV)	
Load regulation ^{*8}		± (0.01% of setting +	±(0.01% of setting +	±(0.01% of setting +	±(0.01% of setting +	±(0.01% of setting +	±(0.01% of setting	
Transient		2mV)	2mV)	3mV)	3mV)	4mV)	+ 7mV) <100us	
response ^{*1}		<50us						
Ripple& noise	(Vrms*2/ Vpp*3)	0.35mVrms/<6mV Vpp	0.5mVrms/ <8mV Vpp	0.5mVrms/ <8mV Vpp	0.8mVrms/ <10mV Vpp	0.8mVrms/ <10mV Vpp	1.2mVrms/ <15mV Vpp	
Rise time ^{*4}	Rated load	20ms or less		50ms	or less		100ms or less	
KISE UME	No load	20ms or less	50ms or less				100ms or less	
+5	Rated load	10ms or less	20ms or less				50ms or less	
Fall time ^{*5}	No load	100ms or less	150ms or less				250ms or less	
Setting range (105%)		0V to 10.5V	0V to 21.0V	0V to 21.0V	0V to 37.8V	0V to 37.8V	0V to 105.0V	
Setting resolution		1mV	1mV	1mV	1mV	1mV	10mV	
Setting accuracy (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)	
Maximum remote sensing compensation voltage (single line) Temperature		1V						
Coefficient (TYP.) ^{*6}		100 ppm/°C						
CONSTANT CU	URRENT OPERA	TION						
Line		±(0.02% of setting +	\pm (0.02% of setting +	±(0.02% of setting +	±(0.02% of setting +	±(0.02% of setting +	±(0.02% of setting	
regulation ^{*7}		250uA)	100uA)	250uA)	50uA)	150uA)	+ 50uA)	
Load regulation ^{*9}		±(0.02% of setting + 250uA)	±(0.02% of setting + 100uA)	±(0.02% of setting + 250uA)	±(0.02% of setting + 50uA)	±(0.02% of setting + 150uA)	±(0.02% of setting + 50uA)	
Ripple &noise	(Arms ^{*2})	2mA	1mA	2mA	400uA	1mA	1mA	
Setting range (105%)		0A to 5.25A	0A to 2.1A	0A to 5.25A	0A to 1.050A	0A to 3.15A	0A to 1.050A	
Setting resolution		0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	
Setting accuracy (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)	
Temperature Coefficient (TYP.) ^{*6}		200 ppm/°C						
*2. Measurement *3. Measurement *4. From 10%~90	t frequency ban t frequency ban 0% of rated out	cover within ±(0.1% + 10 dwidth is 5 Hz to 1 MHz. dwidth is 10 Hz to 20 MHz put voltage, with rated re put voltage, with rated res	z. esistive load.	for a load change fro	m 50% to 100% of its ra	ated output current.		

*6. Temperature coefficient: after a 30 minute warm-up.

*7. At 90~110Vac or 108~132Vac or 198~242Vac or 216~264Vac, constant load.

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*8. From No-loa	d to Full-load, co	onstant AC input voltage.							
		and output terminals are 4-wire connection when E		out models are employ	ed				
		al to the unit voltage ratin							
Measurement and Display		PPX-1005	PPX-2002	PPX-2005	PPX-3601	PPX-3603	PPX-10H01		
Valtara Danas	н	10.000V	20.000V	20.000V	36.000V	36.000V	100.00V		
Voltage Range	L	1.0000V	2.0000V	2.0000V	3.6000V	3.6000V	10.000V		
Current Range	н	5.0000A	2.0000A	5.0000A	1.0000A	3.0000A	1.0000A		
	м	500.00mA	200.00mA	500.00mA	100.00mA	300.00mA	100.00mA		
	L	50.000mA	20.000mA	50.000mA	10.000mA	30.000mA	10.000mA		
		5.0000mA	2.0000mA	5.0000mA	1.0000mA	3.0000mA	1.0000mA		
	Voltage (H)	1mV 10mV 10mV 10mV							
	Voltage (L)	0.1mV							
Measurement Resolution	Current (H)	0.1mA 0.1mA 0.1mA							
Resolution	Current (M)	0.01mA							
	Current (L)	0.001mA							
	Current (LL)	0.0001mA							
	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)		
	Temperature Coefficient ^{*1} (TYP.)	100 ppm/°C							
Measurement 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)	±(0.1% of rdg + 24µA)	±(0.1% of rdg + 40µA)	±(0.1% of rdg + 16µA)	±(0.1% of rdg + 28µA)	±(0.1% of rdg + 24µA)		
	Temperature Coefficient ^{*1} (TYP.)	200 ppm/°C							
*1. Temperature	coefficient: afte	r a 30 minute warm-up.							
Temperature	measurement	PPX-1005	PPX-2002	PPX-2005	PPX-3601	PPX-3603	PPX-10H01		
Temperature	Range	-200°C~+1372°C							
(K-Type Thermocouple)	Resolution	0.25℃							
memocoupic)	Accuracy	±(0.5% + 2°C)							
Protection		PPX-1005	PPX-2002	PPX-2005	PPX-3601	PPX-3603	PPX-10H01		
	Operation		Turns the output off, displays OVP and lights ALARM						
Over Voltage Protection (OVP)		0.5V to 11.0V	1.0V to 22.0V	1.0V to 22.0V	1.8V to 39.6V	1.8V to 39.6V	5.0V to 110.0V		
	Setting range	(5% to 110% of the rated output voltage)							
(-)	Setting	±(1% of rating)							
Over Current Protection	Accuracy Operation								
		Turns the output off, displays OCP and lights ALARM 0.25A to 5.5A 0.1A to 2.2A 0.25A to 5.5A 0.05A to 1.1A 0.15A to 3.3A 0.05A to 1.1A							
	Setting range	0.23A (0 3.3A				0.15A to 3.3A	0.034 to 1.14		
(OCP)	Setting	(5% to 110% of the rated output current) ±(1% of rating)							
Over Temperature Protection (OTP)	Accuracy Operation	Turns the output off, displays OTP and lights ALARM							
Communications		PPX-1005	PPX-2002	PPX-2005	PPX-3601	PPX-3603	PPX-10H01		
LAN		MAC Address, DNS IP A	Address, User Password	l, Gateway IP Address, I	Instrument IP Address,	Subnet Mask			
				. ,	,				

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USB		Type A: Host, Type B: Slave, Speed: 1.1/2.0, USB-CDC								
RS-232/RS-485		Complies with the EIA-RS-232/RS-485 specifications (excluding the connector)								
Input ratings (AC rms)		PPX-1005	PPX-2002	PPX-2005	PPX-3601	PPX-3603	PPX-10H01			
Nominal input voltage *1		100Vac / 120Vac / 220Vac / 240Vac(±10%), 50Hz / 60Hz, single phase								
Input frequency range		47Hz to 63Hz								
Max. Inrush current		25Amax or less	20Amax or less	30Amax or less	35Amax or less	40Amax or less	30Amax or less			
Max. power consumption		200VA	150VA	300VA	150VA	300VA	300VA			
	5 .	plug to an AC line outlet, strument by connecting t	5		e bottom panel in the c	correct position.				
General		PPX-1005	PPX-2002	PPX-2005	PPX-3601	PPX-3603	PPX-10H01			
Dimensions (mm) & Weight		107(W)×124(H)×313(D) (not including protrusions) · Approx. 5.5kg								
Operating temperature		0° C to 40° C								
Storage temperature		-20° C to 70° C								
Operating humidity		20% to 80% RH; No condensation								
Storage humidity		20% to 85% RH; No condensation								
Altitude		Maximum 2000m								
EMC		Complies with the European EMC directive 2014/30/EU for Class A test and measurement products.								
Safety		Complies with the European Low Voltage Directive 2014/35/EU and carries the CE-marking.								
	Between input and chassis	No abnormalities at 1500 Vac for 1 minute.								
Withstand voltage	Between input and output	No abnormalities at 3000 Vac for 1 minute.								
	Between output and chassis	No abnormalities at 500 Vdc for 1 minute.								
Insulation resistance	Between input and chassis	500 Vdc, 100MΩ or more								
	Between input and output	500 Vdc, 100MΩ or more								
	Between output and chassis	500 Vdc, 100MΩ or more								