

Multiple Output Programmable Linear D.C. Power Supply



PPE-3323



PPT-1830/PPT-3615



FEATURES

- * Easy Operation with UP/DOWN Key
- * High Resolution: 10mV, 1mA
- * Over Voltage Protection, Over Current Protection (PPT-Series by Hardware, PPE-Series by Software)
- * 50 Sets Memory
- * Self Test and Software Calibration
- * Auto Step Running With Timer Setting
- * FRONT/REAR Output and Sense Switch Selectable (PPT-Series)
- * Triple Output
- * Auto Series and Parallel Operation(PPT-Series)
- * Auto Tracking
- * IEEE-488.2 and SCPI Compatible Command set (PPT-Series)
- * RS-232 Communication (PPE-Series)
- * GPIB Standard Interface (PPT-Series)
- * LabVIEW Driver Software (PPT-Series)
- * High Stability, Low Drift
- * 4 Digit Display
- * IEC Safety Regulation

Rear Panel



PPE-3323



PPT-1830

The PPE/PPT Series are 3-channel, programmable linear DC power supplies with 207, 138 or 126W outputs. The PPE/ PPT Series feature OVP and OCP protection and are compliant with all major safety standards (UL, CSA, and IEC) for safe, reliable operation. For extra precision the PPT series include remote sensing that add an extra level of precision by compensating cable losses between loads. The digital interface and smart features simplify operation and configuration with output limit store/recall functions, automatic tracking, automatic serial or parallel operation (PPT-Series), and auto stepping for continuous testing. The series have Labview drivers and SCPI commands as standard for remote control and PC interfacing via RS232 (PPE-3323) and GPIB (PPT-Series). The versatile PPE/PPT-Series are ideal for high-level applications requiring high resolution, multiple outputs, and an extra level of safety.

SPECIFICATIONS			
MODEL	PPE-3323	PPT-1830	PPT-3615
OUTPUT			
Voltage	0~+32V,0~ -32V,3.3V/5V FIXED	0~18Vx2,0~6Vx1	0~36Vx2,0~6Vx1
Current	0~+3A,0~ -3A,3A FIXED	0~3Ax2,0~5Ax1	0~1.5Ax2,0~3Ax1
OVP	0~+33V,0~ -33V	0~20Vx2,0~7Vx1	0~38.5Vx2,0~7Vx1
LOAD REGULATION			
Voltage	≤6mV	≤3mV rear output (≤6mV front output)	
Current	≤3mA	≤3mA (≤6mA rating current > 3.5A)	
LINE REGULATION			
Voltage	≤3mV		
Current	≤3mA		
RESOLUTION			
Voltage	10mV (20mV rating voltage > 36V)		
Current	1mA (2mA rating current >3.5A)		
OVP	10mV(20mV rating voltage > 36V)		
PROGRAM ACCURACY (25±5°C)			
Voltage	≤0.05% + 25mV (+ 50mV rating voltage > 36 V)		
Current	≤0.2% + 10mA		
OVP	≤2% + 0.6V		
RIPPLE & NOISE (20Hz ~ 20MHz)			
Voltage	Ripple 1mVrms / 3mVp-p		
Current	Noise 2mVrms / 30mVp-p		
	≤3mA rms (≤ 5mA rms rating current > 3.5A)		
TEMPERATURE COEFFICIENT (0~40°C)			
Voltage	≤100ppm + 3mV		
Current	≤150ppm + 3mA		
READBCK RESOLUTION/ACCURACY (25± 5°C)			
Voltage	10mV (20mV rating voltage > 36V)		
Current	1mA (2mA rating current > 3.5A)		
Voltage	≤0.05% + 25mV (+ 50mV rating voltage > 36V)		
Current	≤0.2% + 10mA		
RESPONSE TIME			
VOLTAGE UP 10% ~ 90%	≤100mS		
VOLTAGE DOWN 90% ~ 10%	≤100mS (≥ rating load)		
READBCK TEMPERATURE COEFFICIENT			
Voltage	≤100ppm + 10mV (+ 20mV rating voltage > 36V)		
Current	≤150ppm + 10mA		
DRIFT			
Voltage	≤100ppm + 10mV	≤0.03% + 6mV	
Current	≤150ppm + 10mA	≤0.1% + 6mA	
TRACK OPERATION			
Tracking Error	≤0.1% + 50mV		
Series Regulation	≤50mV		
PARALLEL OPERATION (PPT-Series only)			
Program Accuracy (25±5°C)	Voltage ≤0.05% + 25mV (+ 50mV rating voltage > 36V)		
	Current ≤0.2% + 20mA		
	OVP ≤2% + 0.6V		
Load Effect	Voltage ≤3mV rear output (≤6mV front output)		
	Current ≤6mA (≤12mA rating current > 3.5A)		
Source Effect	Voltage ≤3mV ; Current ≤6mA		
MEMORY			
Store/Recall	50 sets		
TIMER			
Setting Time	1 second ~ 255 minutes (Max. 255 minutes x 50 sets for PPT-Series)		
	1 second ~ 99 minutes (Max. 99 minutes x 50 sets for PPE-3323)		
Resolution Function	1 second for output working loop (Auto Step running)		
STANDARD INTERFACE			
RS-232 for PPE-Series; GPIB for PPT-Series			
POWER SOURCE			
AC 100V/120V/ 220V/240V±10%, 50/60Hz			
DIMENSIONS & WEIGHT			
255(W) x 145(H) x 346(D) mm; Approx. 10kg			

ORDERING INFORMATION						
PPE-3323	207W Triple Output Programmable D.C. Power Supply					
PPT-1830	138W Triple Output Programmable D.C. Power Supply					
PPT-3615	126W Triple Output Programmable D.C. Power Supply					
Model	Independent	Series	Parallel	Display Type	Weight (kg)	
PPT-1830	(0~18V/0~3A)x2, (0~6V/0~5A)x1	36V/3A	18V/6A	LED	10	
PPT-3615	(0~36V/0~1.5A)x2, (0~6V/0~3A)x1	72V/1.5A	36V/3A	LED	10	
ACCESSORIES :						
User manual x 1, Power cord x 1, Test lead GTL-105A x 3 (PPE-3323 & PPE-3615), GTL-104A x 3 (PPT-1830)						
OPTIONAL ACCESSORIES						
GRA-401	Rack Adapter Panel, 19" 4U		GTL-204A	European test lead x 3 (for PPT-1830/PPT-3615)		
FREE DOWNLOAD						
PPE-3323	PC Software	Remote Control Software	PPT-1830, PPT-3615	Driver	LabView Driver	

Multiple Output Programmable Linear D.C. Power Supply



PST-3201/3202



FEATURES

- * Digitized Programmable Interface
- * High Resolution 10mV, 1mA
- * 192 x 128 LCD Display, Simultaneously Shows Settings and Measuring Result
- * Over-Voltage, Over-Current, Over Temperature Protection
- * Intelligent Fan Control (Changes by Output Power)
- * 100 Sets Memory
- * Auto Step Running With Timer Setting
- * Auto Series and Parallel Function
- * LabVIEW Driver
- * Standard Interface : RS-232C
- * Optional Interface : GPIB (IEEE-488.2)
- * Optional European Jack Type Terminal

Rear Panel



The PST series are 3-channel, 96 or 158W, programmable linear DC power supplies. High resolution is maintained at 10mV, 1mA (±3A). OVP, OCP, and OTP protect the PST-Series and its loads from unexpected conditions. The PST-Series are capable of independent, series or parallel operation for increased flexibility. The large LCD display conveniently displays all outputs and configurations simultaneously to simplify operation. The programmable interface allows automatic stepping, 100 set of memory and comprehensive timing operations. GPIB and RS232C interfaces, Labview drivers and SCPI compatibility allow easy ATE software development and remote control. The versatile PST-Series is ideal for high resolution, multiple output, automated operations such as production testing and rack mounting systems.

SPECIFICATIONS		
	PST-3202	PST-3201
OUTPUT		
Voltage	0~32Vx2, 0~6Vx1	0~32Vx3
Current	0~2Ax2, 0~5Ax1	0~1Ax3
OVP	0~33Vx2, 0~7Vx1	0~33Vx3
LOAD REGULATION		
Voltage	≤ 3mV (≤ 5mV rating current >3.0A)	
Current	≤ 3mA (≤ 5mA rating current >3.0A)	
LINE REGULATION		
Voltage	≤ 3mV	
Current	≤ 3mA	
RESOLUTION		
Voltage	10mV	
Current	1mA (2mA, rating current >3.0A)	
OVP	10mV	
PROGRAM ACCURACY(25 ± 5°C)		
Voltage	≤ 0.05%+20mV	
Current	≤ 0.1%+5mA (+10mA, rating current>3.0A)	
OVP	≤ 0.05%+20mV	
RIPPLE & NOISE(20Hz~20MHz)		
Voltage	Ripple: ≤ 1mVrms/3mVp-p ; Noise: ≤ 2mVrms/30mVp-p	
Current	≤ 3mA rms (≤ 5mA rms, rating current >3.0A)	
TEMPERATURE COEFFICIENT (0 ~ 40 °C)		
Voltage	≤ 100ppm+3mV	
Current	≤ 100ppm+3mA	
READBACK RESOLUTION		
Voltage	10mV(20mV, rating voltage >36V)	
Current	1mA(2mA, rating current >3.0A)	
READBACK ACCURACY(25 ± 5°C)		
Voltage	≤ 0.05%+10mV(+20mV, rating voltage >36V)	
Current	≤ 0.1%+5mA(+10mA, rating current>3.0A)	
READBACK TEMPERATURE COEFFICIENT		
Voltage	≤ 100ppm+10mV(+20mV, rating voltage >36V)	
Current	≤ 150ppm+10mA(+20mA, rating current >3.0A)	
RESPONSE TIME		
Voltage Up (10%~90%)	≤ 100mS	
Voltage Down (90%~10%)	≤ 100mS (≥ 10% rating load)	
DRIFT		
Voltage	≤ 100ppm+10mV(+20mV, rating voltage >36V)	
Current	≤ 150ppm+10mA	
TRACK OPERATION		
Tracking Error	≤ 0.1%+20mV	
Series(Load Effect)	≤ 20mV	
PARALLEL OPERATION		
Program Accuracy(25 ± 5°C)	Voltage ≤ 0.05%+20mV,Current ≤ 0.1%+10mA,OVP ≤ 0.05%+20mV	
Load Effect	Voltage ≤ 3mV(≤ 5mV, rating current>3.0A);Current≤ 6mA	
Source Effect	Voltage ≤ 3mV;Current ≤ 6mA	
MEMORY		
Store/Recall	100 Sets	
TIMER		
Setting time	0.1 second~99 Minutes 59 second(Max. 99 Minutes 59 second x 100)	
Resolution Function	0.1 second Auto step running (for output working loop)	
INTERFACE		
Standard : RS-232C ; Option: GPIB (IEEE488.2)		
POWER SOURCE		
AC 100V/ 120V/ 220V ±10%, 230V(+10%/-6%), 50/60Hz		
DIMENSIONS & WEIGHT		
230(W) x 140(H) x 380(D) mm , Approx.10kg		

ORDERING INFORMATION						
PST-3202	158W Triple Output Programmable D.C. Power Supply					
PST-3201	96W Triple Output Programmable D.C. Power Supply					
Model	Independent	Series	Parallel	Display Type	Weight (kg)	
PST-3201	(0~32V/0~1A)x3	64V/1A	32V/2A	LCD	10	
PST-3202	(0~32V/0~2A)x2,(0~6V/0~5A)x1	64V/2A	32V/4A	LCD	10	
ACCESSORIES :						
User manual x 1, Power cord x 1, Test lead: GTL-104A x 3 (PST-3202) or GTL-105A x 3 (PST-3201)						
European test lead: GTL-204A x 3 (PST-3202) or GTL-203A x 3 (PST-3201)						
OPTION						
Opt.01: GPIB Interface (factory installed)						
OPTIONAL ACCESSORIES						
GRA-407	Rack Mounting(19",4U)		GTL-232	RS232C Cable, 9-pin Female to 9-pin, null Modem for Computer		
FREE DOWNLOAD						
PC Software	PC Software including Data Log ; Remote Control Software			Driver	LabView Driver	

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