

# TRIPLE OUTPUT PROGRAMMABLE LINEAR D.C. POWER SUPPLY



**PPE-3323**



**PPT-1830G/3615G** Patent No: 81011/81324



## 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
- \* Meet UL CSA IEC Safety Regulation
- \* Auto Step Running With Time Setting
- \* FRONT/REAR Output and Sense Switch Selectable (for PPT-Series)
- \* Triple Output
- \* Auto Series and Parallel Operation (for PPT-Series)
- \* Auto Tracking
- \* IEEE-488.2 and SCPI Compatible Command set (PPT-Series)
- \* RS-232 Communication Capability (PPE-Series)
- \* LabVIEW Driver Software Available (for PPT-Series)
- \* High Stability, Low Drift
- \* 4 Digit Display

## Rear Panel



**PPE-3323**



**PPT-1830G**

The PPE/PPT Series is triple output, programmable linear DC power supply with power output selection of 207/138/126W. The thoughtful OVP and OCP features protect PPE/PPT and loads from unexpected conditions, and compliance to major standards, US, CSA, and IEC, enhances safety level. High resolution is maintained at 10mV, 1mA for both series. Remote sensing available in PPT Series adds extra level of precision by compensating cable losses between loads. Configuration is simplified with output limit store/recall function, Auto-tracking, Auto series/parallel operation (PPT-Series only), and auto step running for continuous testing. The standard RS-232C terminal for PPE-Series provides PC communication interface, while PPT-Series offers remote control and ATE software development capability by SCPI command set and Labview driver through its standard GPIB interface. The versatile PPE/PPT-Series is ideal for high-level applications which require high resolution, multiple output, and extra level of safety precaution.

SPECIFICATIONS			
MODEL	PPE-3323	PPT-1830G	PPT-3615G
<b>OUTPUT</b>			
<b>Voltage</b>	0~+32V,0~-32V,3.3V/5V FIXED	0~18Vx2,0~6Vx1	0~36Vx2,0~6Vx1
<b>Current</b>	0~+3A,0~-3A,3A FIXED	0~3Ax2,0~5Ax1	0~1.5Ax2,0~3Ax1
<b>OVP</b>	0~+33V,0~-33V	0~20Vx2,0~7Vx1	0~38.5Vx2,0~7Vx1
<b>LOAD REGULATION</b>			
<b>Voltage</b>	≤6mV	≤3mV rear output (≤6mV front output)	≤3mV rear output (≤6mV front output)
<b>Current</b>	≤3mA	≤3mA (≤6mA rating current > 3.5A)	≤3mA (≤6mA rating current > 3.5A)
<b>LINE REGULATION</b>			
<b>Voltage</b>	≤3mV		
<b>Current</b>	≤3mA		
<b>RESOLUTION</b>			
<b>Voltage</b>	10mV (20mV rating voltage > 36V)		
<b>Current</b>	1mA (2mA rating current > 3.5A)		
<b>OVP</b>	10mV (20mV rating voltage > 36V)		
<b>PROGRAM ACCURACY (25±5°C)</b>			
<b>Voltage</b>	≤0.05% + 25mV (+ 50mV rating voltage > 36V)		
<b>Current</b>	≤0.2% + 10mA		
<b>OVP</b>	≤2% + 0.6V		
<b>RIPPLE &amp; NOISE (20Hz ~ 20MHz)</b>			
<b>Voltage</b>	Ripple 1mVrms / 3mVp-p		
<b>Current</b>	Noise 2mVrms / 30mVp-p		
	≤3mA rms (≤5mA rms rating current > 3.5A)		
<b>TEMPERATURE COEFFICIENT (0~40°C)</b>			
<b>Voltage</b>	≤100ppm + 3mV		
<b>Current</b>	≤150ppm + 3mA		
<b>REARBACK RESOLUTION ACCURACY (25±5°C)</b>			
<b>Voltage</b>	10mV (20mV rating voltage > 36V)		
<b>Current</b>	1mA (2mA rating current > 3.5A)		
<b>Voltage</b>	≤0.05% + 25mV (+ 50mV rating voltage > 36V)		
<b>Current</b>	≤0.2% + 10mA		
<b>RESPONSE TIME</b>			
<b>VOLTAGE UP 10% ~ 90%</b>	≤100ms		
<b>VOLTAGE DOWN 90% ~ 10%</b>	≤100ms		
<b>REARBACK TEMPERATURE COEFFICIENT</b>			
<b>Voltage</b>	≤100ppm + 10mV (+ 20mV rating voltage > 36V)		
<b>Current</b>	≤150ppm + 10mA		
<b>DRIFT</b>			
<b>Voltage</b>	≤0.03% + 6mV		
<b>Current</b>	≤0.1% + 6mA		
<b>TRACK OPERATION</b>			
<b>Tracking Error</b>	≤0.1% + 50mV		
<b>Series Regulation</b>	≤50mV		
<b>PARALLEL OPERATION (PPT-Series only)</b>			
<b>Program Accuracy (25±5°C)</b>	Voltage	≤0.05% + 25mV (+ 50mV rating voltage > 36V)	
	Current	≤0.2% + 20mA	
	OVP	≤2% + 0.6V	
<b>Load Effect</b>	Voltage	≤3mV rear output (≤6mV front output)	
	Current	≤6mA (≤12mA rating current > 3.5A)	
<b>Source Effect</b>	Voltage	≤3mV	
	Current	≤6mA	
<b>MEMORY</b>			
<b>Store/Recall</b>	49 sets		
<b>TIMER</b>			
<b>Setting time</b>	1 second ~ 255 minutes (Max. 255 x 49 minutes for PPT-Series)		
<b>Resolution Function</b>	1 second ~ 99 minutes (Max. 99 x 49 minutes for PPE-3323)		
	1 second for output working loop (Auto Step running)		
<b>INTERFACE</b>			
RS-232 standard for PPE-Series; GPIB Interface Standard for PPT-Series			
<b>POWER SOURCE</b>			
AC 100V/120V/ 220V/240V ±10%, 50/60Hz			
<b>DIMENSIONS &amp; WEIGHT</b>			
255(W) x 145(H) x 346(D) mm; Approx. 10kg			

ORDERING INFORMATION	
<b>PPE-3323</b>	207W Triple Output Programmable D.C. Power Supply
<b>PPT-1830G</b>	138W Triple Output Programmable D.C. Power Supply
<b>PPT-3615G</b>	126W Triple Output Programmable D.C. Power Supply
ACCESSORIES:	
User manual x 1, Power cord x 1, GTL-105 x 3	
<b>Optional Accessories</b>	
<b>GRA-401</b>	Rack Adapter Panel