

# 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-2232) 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
<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 )	
<b>Current</b>	≤3mA	≤ 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 > 36 V )		
<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>READBACK 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 ( ≥ rating load )		
<b>READBACK TEMPERATURE COEFFICIENT</b>			
<b>Voltage</b>	≤100ppm + 10mV ( + 20mV rating voltage > 36V )		
<b>Current</b>	≤150ppm + 10mA		
<b>DRIFT</b>			
<b>Voltage</b>	≤100ppm + 10mV	≤0.03% + 6mV	
<b>Current</b>	≤150ppm + 10mA	≤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>	<b>Voltage</b>	≤ 0.05% + 25mV ( + 50mV rating voltage > 36V )	
	<b>Current</b>	≤ 0.2% + 20mA	
	<b>OVP</b>	≤ 2% + 0.6V	
<b>Load Effect</b>	<b>Voltage</b>	≤ 3mV rear output ( ≤ 6mV front output )	
	<b>Current</b>	≤ 6mA ( ≤12mA rating current > 3.5A )	
<b>Source Effect</b>	<b>Voltage</b>	≤ 3mV	
	<b>Current</b>	≤ 6mA	
<b>MEMORY</b>			
<b>Store/Recall</b>	50 sets		
<b>TIMER</b>			
<b>Setting Time</b>	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)		
<b>Resolution Function</b>	1 second for output working loop (Auto Step running )		
<b>STANDARD INTERFACE</b>			
RS-232 for PPE-Series; GPIB 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

**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-105 x 3 (PPE-3323 ), GTL-104 x 3 (for PPT-1830/PPT-3615)

## OPTIONAL ACCESSORIES

**GRA-401** Rack Adapter Panel, 19" 4U **GTL-204** 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