

Linear Mode DC Power Supply

PROGRAMMABLE, SINGLE OUTPUT



TPM SERIES

0~36V / 0~3A, 0~15V / 0~6A
0~36V / 0~5A, 0~15V / 0~10A
0~30V / 0~3A
0~30V / 0~5A
0~60V / 0~3A



FEATURES

- 1CH output with 2 selectable output ranges (TPM-3003/3005)
- High resolution 1mV/0.1mA
- 24-bit ADC and 16-bit DAC, high accuracy
- Over load, over voltage, over current, over temperature and reverse polarity protections
- Constant voltage and constant current operations, auto CV and CC switch
- 122x32 backlit LCD display for full output details
- High speed rotary dial and keypad input
- Built-in beeper alarm
- Panel lock and output ON/OFF function
- 100 sets save & recall for voltage and current setups
- Delay time setup (99999s) and AUTO running program for easy AUTO test
- Standard USB interface, support SCPI commands, support Labview
- Optional RS-232 interface

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SPECIFICATIONS

Constant voltage operation			
Line regulation	≤0.01%+3mV		
Load regulation	≤0.01%+3mV (I≤3A); ≤0.02%+5mV (I>3A)		
Ripple & Noise (5Hz~1MHz)	≤1mVrms (I≤3A); ≤2mVrms (I>3A)		
Recovery time	≤100us (50% load change, minimum load 0.5A)		
Constant current operation			
Line regulation	≤0.2%+3mA		
Load regulation	≤0.2%+3mA (I≤3A); ≤0.2%+5mA (I>3A)		
Ripple & Noise	≤3mArms (I≤3A); ≤6mArms (I>3A)		
Display			
Voltmeter	5 digits LCD display		
Ammeter	5 digits LCD display		
Setting accuracy (25±5°C)	Voltage	±(0.03% reading+10mV)	
	Current	±(0.2% reading+10mA)	
Reading accuracy (25±5°C)	Voltage	±(0.02% reading+5mV)	
	Current	±(0.02% reading+5mA)	
General			
Protection	Over load, over voltage, over current, over temperature and reverse polarity protections		
Panel lock	Provided		
Interface	USB interface, support SCPI commands, support Labview Optional RS-232 interface		
Memory	100 sets		
Insulation	Between base and output terminal: ≥20MΩ/500VDC		
	Between base and AC power cord: ≥30MΩ/500VDC		
Operating environment	Indoor use	Altitude: ≤2000m	Ambient temperature: 0~40°C
	Relative humidity: ≤80%	Installation category: II	Pollution degree: 2
Storage environment	-10°C ~70°C, ≤70%RH		
Power source	AC110V/220V±10% selectable, 50/60Hz		
Accessories	Power cord x1, Operation manual x1, USB cable x1, Software CD x1		

SELECTION GUIDE

Model	TPM-3003		TPM-3005		TPM-3003E	TPM-3005E	TPM-6003E
	0~36V	0~15V	0~36V	0~15V			
Output voltage	0~36V	0~15V	0~36V	0~15V	0~30V	0~30V	0~60V
Output current	0~3A	0~6A	0~5A	0~10A	0~3A	0~5A	0~3A
O.V.P. range	0.1~38V		0.1~38V		0.1~34V	0.1~34V	0.1~64V
O.C.P. range	0.1~6.5A		0.1~11A		0.1~3.5A	0.1~5.5A	0.1~3.5A
Reading resolution	1mV/0.1mA		1mV/1mA		1mV/0.1mA		
Dimension (WxHxD)	130x160x310mm						
Weight	5.5kg		6.5kg		4.5kg	5.5kg	5.5kg

Model	TPM-6005E	TPM-2010E	TPM-3010E	TPM-7503E	TPM-7505E
Output current	0~5A	0~10A	0~10A	0~3A	0~5A
O.V.P. range	0.1~64V	0.1~24V	0.1~34V	0.1~80V	0.1~80V
O.C.P. range	0.1~5.5A	0.1~11A	0.1~11A	0.1~3.5A	0.1~5.5A
Reading resolution	1mV/0.1mA	1mV/1mA		1mV/0.1mA	
Dimension (WxHxD)	130x160x310mm				130x160x410mm
Weight	7kg	5.5kg	7kg	5.5kg	8kg