

TPM series (90W~180W , 1mV/0.1mA, with USB interface)

Introduction

TPM series are high precision programmable DC power supply with single output, output power rated from 90W to 180W with various model numbers. A remarkable feature of the TPM series is high resolution 1mV/0.1mA. Delay Time and Auto Run facilitate automatic test in different applications. USB/RS-232 interface, SCPI command sets make remote control easier. The smart cooling fan ensures low noise. Over load, over voltage, over current, over temperature and reverse polarity protections protect the TPM series and their load from unexpected conditions. High stability and high accuracy further make TPM series an ideal option for various applications requiring high resolution and accurate control.

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

Product photo



TPM-3003



TPM-6003E

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℃)	Voltage	±(0.03% reading+10mV)
	Current	±(0.2% reading+10mA)
Reading accuracy (25±5℃)	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℃
		Relative humidity: ≤80% Installation category: II Pollution degree: 2
Storage environment		-10℃~70℃, ≤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	Output Voltage	Output Current	O.V.P.	O.C.P.	Resolution	Dimension	Weight
TPM-3003	0~36V 0~15V	0~3A 0~6A	0.1~38V	0.1~6.5A	1mV/0.1mA	126Wx143Hx296Dmm	5.5kg
TPM-3005	0~36V 0~15V	0~5A 0~10A	0.1~38V	0.1~11A	1mV/1mA		6.2kg
TPM-3003E	0~30V	0~3A	0.1~34V	0.1~3.5A	1mV/0.1mA		4.5kg
TPM-3005E	0~30V	0~5A	0.1~34V	0.1~5.5A	1mV/0.1mA		4.5kg
TPM-6001E	0~60V	0~1A	0.1~64V	0.1~1.5A	1mV/0.1mA		4.5kg
TPM-6003E	0~60V	0~3A	0.1~64V	0.1~3.5A	1mV/0.1mA		5.5kg
TPM-6005E	0~60V	0~5A	0.1~64V	0.1~5.5A	1mV/0.1mA		7.0kg
TPM-2010E	0~20V	0~10A	0.1~24V	0.1~11A	1mV/1mA		6.4kg
TPM-3010E	0~30V	0~10A	0.1~34V	0.1~11A	1mV/1mA		7.5kg
TPM-7503E	0~75V	0~3A	0.1~80V	0.1~3.5A	1mV/0.1mA		6.3kg
TPM-7505E	0~75V	0~5A	0.1~80V	0.1~5.5A	1mV/0.1mA	126Wx143Hx396Dmm	8.8kg

Specifications are subject to change without prior notice.

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