

Multiple Output 180W~315W

Introduction

The TP2000 and TP2000TK series are linear DC power supplies with 3 channels, 195W to 315W output. In constant voltage and current operations, the power supply provides high regulation and low ripple & noise. Auto series and parallel operations double output voltage and current. Heat sink and automatic cooling fan control give sufficient cooling to the power supply and minimize fan noise. The output ON/OFF control and preset voltage & current function protect the power supply and related loads from unexpected damages. The TP2000 and TP2000TK series are widely used in applications of powering operational amplifier, push pull stages, logic circuit and definition systems.

Features

- ✓ Two independent adjustable outputs 0~30V/0~3A x2, 0~30V/0~5A x2, one fixed output 5V/3A x1
- ✓ Constant voltage and constant current operations, auto CV and CC switch
- ✓ Low ripple and noise, low temperature drift
- ✓ Auto Series and Parallel tracking operations
- ✓ Output ON/OFF control
- ✓ **Preset function, setting of voltage and current with output open circuit (TP-2303TK/2305TK)**
- ✓ High efficiency, high power density
- ✓ Over load and reverse polarity protections
- ✓ Dual-color four digital panel meters

Selection guide

Model	TP-2303E TP-2305E	TP-2303C TP-2305C	TP-2303K TP-2305K	TP-2303 TP-2305	TP-2303TK TP-2305TK
Output voltage	0~30V x2	0~30V x2	0~30V x2	0~30V x2	0~30V x2
Output current	0~3A x2 0~5A x2	0~3A x2 0~5A x2	0~3A x2 0~5A x2	0~3A x2 0~5A x2	0~3A x2 0~5A x2
Fixed output		5V/3A	5V/3A	5V/3A	5V/3A
Preset V&I					✓
Output ON/OFF			✓	✓	✓
Tracking operation	✓	✓	✓	✓	✓
Dimension (WxHxD)	255x155x330mm			255x155x370mm	
Weight	7kg/9kg	7kg/9kg	7kg/9kg	8kg/10kg	8kg/10kg

Multiple Output Linear DC Power Supply

Product photo

TP-2303E



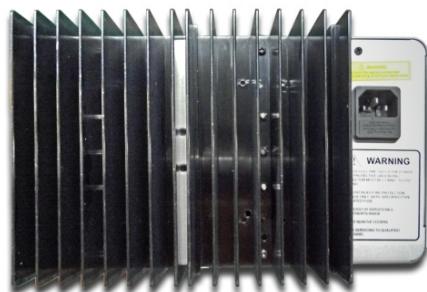
TP-2303C



TP-2303K



TP-2303



TP-2305TK



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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)	
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); ≤6mAmps (I>3A)	
Tracking operation		
Parallel	Line regulation	≤0.01%+3mV
	Load regulation	≤0.01%+3mV (I≤3A); ≤0.02%+5mV (I>3A)
Series	Line regulation	≤0.01%+5mV
	Load regulation	≤300mV
	Tracking error	≤0.5%+10mV of the master, no load (with load, add load regulation ≤300mV)
Auxiliary output (fixed)		
Output voltage	5V±0.25V	
Output current	3A	
Load regulation	≤25mV @110/220VAC rated input	
Ripple & noise (5Hz~1MHz)	≤2mVrms	
Display		
Voltmeter	3 digits LED display	
Ammeter	3 digits LED display	
Resolution	100mV/10mA	
Accuracy	Real voltage and current output: ±(1% reading+2 digits)	
	Preset voltage and current: ±(1% reading+8 digits)	
General		
Insulation	Between base and output terminal: ≥20MΩ/500VDC	
	Between base and AC power cord: ≥300MΩ/500VDC	
Operating environment	0°C~40°C, ≤80%RH	
Storage environment	-10°C~70°C, ≤70%RH	
Power source	AC110V/220V±10%, 50/60Hz	
Accessories	Power cord x1, Operation manual x1	