



MAIN: CH1/CH2  
0~30V/0~3A x2  
0~30V/0~5A x2

AUX.: FIXED  
5V/3A



## ► 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

## ► 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); ≤6mArms (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, Test lead x1

## ► Selection Guide

Model	TP-2303E	TP-2305E	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	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
Fixed output			5V/3A	5V/3A	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	8kg	10kg	8kg	10kg