Multiple Output Linear DC Power Supply

180W~315W Series



▶ 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/5A ×2, one fixed output 5V/3A ×1
- ✓ Constant voltage and constant current operations
- ✓ Low ripple and noise, low temperature drift
- ✓ Auto Series and Parallel tracking operations
- ✓ Output ON/OFF control
- ✓ Preset voltage and current (TP-2303TK/2305TK)
- ✓ High efficiency, high power density
- Over load and reverse polarity protections
- ✓ Dual-color four digital panel meters

Constant volt	age operation					
Line regulation		≤0.01%+3mV				
Load regulation		≤0.01%+3mV (I≤3A); ≤0.02%+5mV (I>3A)				
Ripple & Noise		≤1mVrms (I≤3A); ≤2mVrms (I>3A)				
Temperature co-efficient		≤300ppm/°C				
Recovery time		≤100us (50% load change, minimum load 0.5A)				
Constant curr	ent 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 oper	ation					
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)				
Fixed output						
Output voltage		5V±0.25V				
Output current		3A				
Line regulation		≤25mV				
Load regulation		≤25mV				
Ripple & noise		≤2.0mVrms				
Protection		Over load and reverse polarity protections				
Display						
Voltmeter		3 digits LED display				
Ammeter		3 digits LED display				
Resolution		100mV/10mA				
Accuracy	Voltage	±(0.5% reading+2 digits)				
	Current	±(1% reading+2 digits)				
Protection		Over load and reverse polarity protections				
Power source		AC110V/220V±10% selectable, 50/60Hz				
Operating environment		0°C~40°C, ≤80%RH				
Storage environment		-10℃~70℃, ≤70%RH				
Accessories		Power cord ×1, Operation manual ×1, Test lead ×1				

Multiple Output Linear DC Power Supply Selection Guide (180W~315W)								
Model	TP-2303E	TP-2305E	TP-2303	TP-2305	TP-2303TK	TP-2305TK		
Output voltage	0~30V ×2	0~30V ×2	0~30V ×2	0~30V ×2	0~30V ×2	0~30V×2		
Output current	0~3A ×2	0~5A ×2	0~3A ×2	0~5A ×2	0~3A ×2	0~5A ×2		
Fixed output			5V/3A	5V/3A	5V/3A	5V/3A		
Preset V&I					√	√		
Output ON/OFF			√	√	√	√		
Tracking operation	√	√	√	√	√	√		
Dimension	260×160×330mm		260×160×370mm					
Weight	7kg	9kg	8kg	10kg	8kg	10kg		

