

TP3300 series (195W~315W, with USB interface)

Introduction

The TP3300 series programmable DC power supply are light weight, adjustable, multi-functional work stations. They have three independent outputs: two with adjustable voltage level and one with fixed level selectable from 2.5V, 3.3V and 5V. The power supply can be used for logic circuits where various output voltage or current are needed, and for tracking mode definition systems where positive and negative voltages with good accuracy are required.

Features

- ✓ Two independent adjustable outputs 0~30V/0~3A x2 0~30V/0~5A x2
- ✓ One selectable output 2.5V, 3.3V, 5V/3A
- ✓ High resolution 1mV/1mA (TP-3303)
- ✓ Constant voltage and constant current operations, auto CV and CC switch
- ✓ Digital panel control, Coarse/Fine volume control for voltage and current
- ✓ 4 sets save & recall for panels settings, quick operation from panel
- ✓ Panel lock and output ON/OFF function
- ✓ Preset function, setting of voltage and current with output open circuit
- ✓ Auto Series and Parallel tracking operations
- ✓ Intelligent cooling fan control
- ✓ Standard USB interface for PC remote control (TP-3303/3303U/3305U)
- ✓ Support Labview (TP-3303/3303U/3305U)

Product photo



TP-3303

Programmable Linear DC Power Supply



Specifications

Model	TP-3303	TP-3303U/3305U	TP-3303D/3305D	TP-3303E/3305E
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	≤100μs (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)			
Tracking operation				
Parallel	Line regulation	≤0.01%+3mV		
	Load regulation	≤0.01%+5mV (I≤3A); ≤0.02%+10mV (I>3A)		
Serial	Line regulation	≤0.01%+5mV		
	Load regulation	≤300mV		
	Tracking error	≤0.5%+10mV	≤0.5%+50mV	≤0.5%+50mV
(No load; with load, add load regulation ≤300mV)				
Auxiliary output (fixed)				
Output voltage	2.5V, 3.3V, 5V (selectable), ±8%			
Output current	3A			
Line regulation	≤25mV			
Load regulation	≤25mV			
Ripple & Noise (5Hz~1MHz)	≤2mVrms			
Protection	Over load and reverse polarity protections			
Setting Accuracy (25±5°C)				
Voltage	±(0.03%+10mV)	±(0.5%+2d)	±(0.2%+3d) (0~9.99V) ±(0.5%+2d) (10~30V)	±(0.5%+2d)
Current	±(0.3%+10mA)	±(0.5%+2d) (I≤3A);	±(0.5%+5d) (I>3A)	
Reading Accuracy (25±5°C)				
Voltage	±(0.03%+10mV)	±(0.5%+2d)	±(0.2%+3d) (0~9.99V) ±(0.5%+2d) (10~30V)	±(0.5%+2d)
Current	±(0.3%+10mA)	±(0.5%+3d) (I≤3A);	±(0.5%+5d) (I>3A)	
General				
Protection	Over load, voltage limit, current limit and reverse polarity protections			
Panel lock	Provided			
Memory	4 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 (only TP-3303/3303U/3305U)			

Selection guide

Model	TP-3303	TP-3303U	TP-3305U	TP-3303D	TP-3305D	TP-3303E	TP-3305E	
Output voltage	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	0~3A x2	0~5A x2	0~3A x2	0~5A x2	0~3A x2	0~5A x2	
Fixed output	2.5V, 3.3V, 5V/3A							
Voltmeter	5 digits LED						3 digits LED	
Ammeter	4 digits LED						3 digits LED	
Resolution	1mV/1mA	100mV/10mA		10mV/10mA (0~9.99V) 100mV/10mA (10~30V)		100mV/10mA		
USB interface	√	√	√					
Dimension (WxHxD)	250x150x310mm							
Weight	7.5kg	7.5kg	10kg	7.5kg	10kg	7.5kg	10kg	

Specifications are subject to change without prior notice.

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