

TP-3300U Series (100mV/10mA, USB)

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
- ✓ One selectable output 2.5V/3.3V/5V/3A
- ✓ Constant voltage and constant current operations
- ✓ Digital panel control, Coarse/Fine volume control for voltage and current
- ✓ 4 sets panel settings save & recall
- ✓ Panel lock and output ON/OFF function
- ✓ Preset voltage and current
- ✓ Auto Series and Parallel tracking operations
- ✓ Intelligent cooling fan control
- ✓ USB interface for PC control
- ✓ Support Labview

Product photo

TP-3303U



Programmable Linear DC Power Supply



Specifications

Model	TP-3303U	TP-3305U
Output	0~30V/0~3A x2, fixed 2.5/3.3/5V3A x1	0~30V/0~5A x2, fixed 2.5/3.3/5V3A x1
Constant voltage operation		
Line regulation	≤0.01%+3mV	
Load regulation	≤0.01%+3mV	≤0.02%+5mV
Ripple & Noise	≤1mVrms (5Hz~1MHz);	≤2mVrms (5Hz~1MHz)
Recovery time	≤100μs (50% load change, minimum load 0.5A)	
Constant current operation		
Line regulation	≤0.2%+3mA	
Load regulation	≤0.2%+3mA	≤0.2%+5mA
Ripple & Noise	≤3mArms	≤6mArms
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%+50mV (No load; with load, add load regulation ≤300mV)
CH3 output		
Output voltage	2.5V, 3.3V, 5V (selectable), ±8%	
Output current	3A	
Line regulation	≤25mV	
Load regulation	≤25mV	
Ripple & Noise	≤2mVrms	
Protection	Over load and reverse polarity protections	
Display		
Voltmeter	32V full scale, LED display	
Ammeter	3.2A full scale, LED display	
Setting accuracy	Voltage	±(0.5%+2d)
	Current	±(0.5%+2d) ±(0.5%+5d)
Reading accuracy	Voltage	±(0.5%+2d)
	Current	±(0.5%+3d) ±(0.5%+5d)
Protection	Over load, voltage limit, current limit and reverse polarity protections	
Insulation	Between base and output terminal≥20MΩ/500VDC	
	Between base and power cord≥30MΩ/500VDC	
Operating environment	0°C~40°C, ≤80%RH	
Storage environment	-10°C~70°C, ≤70%RH	
Power source	AC110V/220V±10% selectable, 50/60Hz	
Accessories	Power cord x1, Operation manual x1, Test lead x1, USB cable x1, Software CD x1	

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	0.4" 5 digits						0.5" 3 digits
Ammeter	0.4" 4 digits						0.5" 3 digits
Resolution	1mV/1mA	100mV/10mA		10mV/10mA (0~9.99V) 100mV/10mA (10~30V)		100mV/10mA	
USB interface	√	√	√				
Dimension	310x250x150mm						
Weight	7.5kg	7.5kg	10kg	7.5kg	10kg	7.5kg	10kg

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