

## TP-3303 (1mV/1mA, 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
- ✓ High resolution 1mV/1mA
- ✓ 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-3303

## Specifications

<b>Model</b>	<b>TP-3303</b>	
<b>Output</b>	0~30V/0~3A x2, fixed 2.5/3.3/5V/3A x1	
<b>Constant voltage operation</b>		
Line regulation	≤0.01%+3mV	
Load regulation	≤0.01%+3mV	
Ripple & Noise	≤1mVrms	
Recovery time	≤100μs (50% load change, minimum load 0.5A)	
<b>Constant current operation</b>		
Line regulation	≤0.2%+3mA	
Load regulation	≤0.2%+3mA	
Ripple & Noise	≤3mArms	
<b>Tracking operation</b>		
Parallel	Line regulation	≤0.01%+3mV
	Load regulation	≤0.01%+5mV
Serial	Line regulation	≤0.01%+5mV
	Load regulation	≤300mV
	Tracking error	≤0.5%+10mV (No load; with load, add load regulation ≤300mV)
<b>CH3 output</b>		
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	
<b>Display</b>		
Voltmeter	32V full scale, LED display	
Ammeter	3.2A full scale, LED display	
Setting accuracy	Voltage	±(0.03%+10mV)
	Current	±(0.3%+10mA)
Reading accuracy	Voltage	±(0.03%+10mV)
	Current	±(0.3%+10mA)
<b>Protection</b>	Over load, voltage limit, current limit and reverse polarity protections	
<b>Insulation</b>	Between base and output terminal≥20MΩ/500VDC	
	Between base and power cord≥30MΩ/500VDC	
<b>Operating environment</b>	0°C~40°C, ≤80%RH	
<b>Storage environment</b>	-10°C~70°C, ≤70%RH	
<b>Power source</b>	AC110V/220V±10% selectable, 50/60Hz	
<b>Accessories</b>	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
<b>Output voltage</b>	0~30V x2	0~30V x2	0~30V x2	0~30V x2	0~30V x2	0~30V x2	0~30V x2
<b>Output current</b>	0~3A x2	0~3A x2	0~5A x2	0~3A x2	0~5A x2	0~3A x2	0~5A x2
<b>Fixed output</b>	2.5V, 3.3V, 5V/3A						
<b>Voltmeter</b>	0.4" 5 digits	0.5" 3 digits					
<b>Ammeter</b>	0.4" 4 digits	0.5" 3 digits					
<b>Resolution</b>	1mV/1mA	100mV/10mA		10mV/10mA (0~9.99V) 100mV/10mA (10~30V)		100mV/10mA	
<b>USB interface</b>	√	√	√				
<b>Dimension</b>	310x250x150mm						
<b>Weight</b>	7.5kg	7.5kg	10kg	7.5kg	10kg	7.5kg	10kg