

## 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
- ✓ Support Labview

### Product photo



TP-3303



TP-3303U

# Switching DC Power Supply

## Specifications

Model		TP-3303	TP-3303U	TP-3305U
Rated output	CH1	0~30V, 0~3A	0~30V, 0~3A	0~30V, 0~5A
	CH2	0~30V, 0~3A	0~30V, 0~3A	0~30V, 0~5A
	CH3	2.5V/3.3V/5V, 3A	2.5V/3.3V/5V, 3A	2.5V/3.3V/5V, 3A
<b>Constant voltage operation</b>				
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)		
<b>Constant current operation</b>				
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)		
<b>Tracking operation</b>				
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)				
<b>Auxiliary output (fixed)</b>				
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		
<b>Setting Accuracy (25±5°C)</b>				
Voltage		±(0.03%+10mV)	±(0.5%+2d)	±(0.5%+2d)
Current		±(0.3%+10mA)	±(0.5%+2d) (I≤3A);	±(0.5%+5d) (I>3A)
Resolution		1mV 1mA	100mV 10mA	100mV 10mA
<b>Reading Accuracy (25±5°C)</b>				
Voltage		±(0.03%+10mV)	±(0.5%+2d)	±(0.5%+2d)
Current		±(0.3%+10mA)	±(0.5%+3d) (I≤3A);	±(0.5%+5d) (I>3A)
Resolution		1mV 1mA	100mV 10mA	100mV 10mA
<b>General</b>				
Display meter	5 digits LED for voltage		3 digits LED for voltage	3 digits LED for voltage
	4 digits LED for current		3 digits LED for current	3 digits LED for current
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		
Dimensions		250Wx150Hx310D mm		
Weight		7.5kg	7.5kg	10kg

Specifications are subject to change without prior notice.