

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

Programmable Linear 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
Constant voltage operation			
Line regulation	$\leq 0.01\% + 3\text{mV}$		
Load regulation	$\leq 0.01\% + 3\text{mV} (I \leq 3\text{A})$; $\leq 0.02\% + 5\text{mV} (I > 3\text{A})$		
Ripple & Noise (5Hz~1MHz)	$\leq 1\text{mVrms} (I \leq 3\text{A})$; $\leq 2\text{mVrms} (I > 3\text{A})$		
Recovery time	$\leq 100\mu\text{s}$ (50% load change, minimum load 0.5A)		
Temp.coefficient	$\leq 300\text{ppm}/^\circ\text{C}$		
Constant current operation			
Line regulation	$\leq 0.2\% + 3\text{mA}$		
Load regulation	$\leq 0.2\% + 3\text{mA} (I \leq 3\text{A})$; $\leq 0.2\% + 5\text{mA} (I > 3\text{A})$		
Ripple & Noise	$\leq 3\text{mArms} (I \leq 3\text{A})$; $\leq 6\text{mAmps} (I > 3\text{A})$		
Tracking operation			
Parallel	Line regulation	$\leq 0.01\% + 3\text{mV}$	
	Load regulation	$\leq 0.01\% + 5\text{mV} (I \leq 3\text{A})$; $\leq 0.02\% + 10\text{mV} (I > 3\text{A})$	
Serial	Line regulation	$\leq 0.01\% + 5\text{mV}$	
	Load regulation	$\leq 300\text{mV}$	
	Tracking error	$\leq 0.5\% + 10\text{mV}$ (No load; with load, add load regulation $\leq 300\text{mV}$)	$\leq 0.5\% + 50\text{mV}$ $\leq 0.5\% + 50\text{mV}$
Auxiliary output (fixed)			
Output voltage	2.5V, 3.3V, 5V (selectable), $\pm 8\%$		
Output current	3A		
Line regulation	$\leq 25\text{mV}$		
Load regulation	$\leq 25\text{mV}$		
Ripple & Noise (5Hz~1MHz)	$\leq 2\text{mVrms}$		
Protection	Over load and reverse polarity protections		
Setting Accuracy (25±5°C)			
Voltage	$\pm(0.03\% + 10\text{mV})$	$\pm(0.5\% + 2\text{d})$	$\pm(0.5\% + 2\text{d})$
Current	$\pm(0.3\% + 10\text{mA})$	$\pm(0.5\% + 2\text{d}) (I \leq 3\text{A})$	$\pm(0.5\% + 5\text{d}) (I > 3\text{A})$
Resolution	1mV 1mA	100mV 10mA	100mV 10mA
Reading Accuracy (25±5°C)			
Voltage	$\pm(0.03\% + 10\text{mV})$	$\pm(0.5\% + 2\text{d})$	$\pm(0.5\% + 2\text{d})$
Current	$\pm(0.3\% + 10\text{mA})$	$\pm(0.5\% + 3\text{d}) (I \leq 3\text{A})$	$\pm(0.5\% + 5\text{d}) (I > 3\text{A})$
Resolution	1mV 1mA	100mV 10mA	100mV 10mA
General			
Display meter	5 digits LED for voltage 4 digits LED for current	3 digits LED for voltage 3 digits LED for current	3 digits LED for voltage 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: $\geq 20\text{M}\Omega/500\text{VDC}$		
	Between base and AC power cord: $\geq 30\text{M}\Omega/500\text{VDC}$		
Operating environment	Indoor use Relative humidity: $\leq 80\%$	Altitude: $\leq 2000\text{m}$ Installation category: II	Ambient temperature: 0~40°C Pollution degree: 2
	-10°C~70°C, $\leq 70\%\text{RH}$		
Storage environment	-10°C~70°C, $\leq 70\%\text{RH}$		
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.