

Multiple Output 195W~325W

Introduction

The TP2000PU series are linear DC power supplies with 3 channels, 195W to 325W output. In constant voltage and current operations, the power supply provides high regulation and low ripple & noise. Auto series and parallel operations double output voltage and current. A particular feature of the TP2000PU series is the USB output with fixed 5V/2A. The USB 5V/2A output can be used for charging various small electronic devices and for some special logic circuits. The output ON/OFF control and preset voltage & current function protect the power supply and related loads from unexpected damages. The TP2000PU series are widely used in applications of powering operational amplifier, push pull stages, logic circuit and definition systems.

Features

- ✓ Two independent adjustable outputs 0~30V/0~3A x2, 0~30V/5A x2, 0~50V/0~3A x2
- ✓ Fixed 2.5V/3.3V/5V/3A binding post output, and fixed 5V/2A USB output
- ✓ Constant voltage and constant current operations, Auto CV and CC switch
- ✓ Low ripple and noise, low temperature drift
- ✓ Auto Series and Parallel tracking operations
- ✓ Output ON/OFF control
- ✓ Preset function, setting of voltage and current with output open circuit (TP-2303PU/2305PU/2503PU)
- ✓ High efficiency, high power density
- ✓ Over load and reverse polarity protections
- ✓ Dual-color four digital panel meters
- ✓ SMD PCB, high quality, high reliability

Product photo

TP-2303PU



TP-2303N



Multiple Output Linear DC Power Supply



Specifications

Rated output		0~30V/0~3A		0~30V/0~5A		0~50V/0~3A	
Constant voltage operation							
Line regulation		≤0.01%+3mV					
Load regulation		≤0.01%+3mV		≤0.02%+5mV		≤0.01%+3mV	
Ripple & Noise (5Hz~1MHz)		≤1mVrms		≤2mVrms		≤1mVrms	
Constant current operation							
Line regulation		≤0.2%+3mA					
Load regulation		≤0.2%+3mA		≤0.2%+5mA		≤0.2%+3mA	
Ripple & Noise		≤3mA _{rms}		≤6mA _{rms}		≤3mA _{rms}	
Tracking operation							
Parallel	Line regulation	≤0.01%+3mV					
	Load regulation	≤0.02%+5mV					
Series	Line regulation	≤0.01%+5mV					
	Load regulation	≤300mV					
Auxiliary output (CH3)							
Load regulation		≤25mV @110/220VAC rated input					
Ripple & Noise (5Hz~1MHz)		≤2mVrms					
Display							
Voltmeter		3 digits LED display					
Ammeter		3 digits LED display					
Resolution		100mV/10mA					
Accuracy		Real voltage and current output: ±(1% reading+2 digits)					
		Preset voltage and current: ±(1% reading+8 digits)					
General							
Operating environment		0℃~40℃, ≤80%RH					
Storage environment		-10℃~70℃, ≤70%RH					
Power source		AC110V/220V±10%, 50/60Hz					
Accessories		Power cord x1, Operation manual x1					

Selection guide

Model		TP-2303N	TP-2305N	TP-2503N	TP-2303PU	TP-2305PU	TP-2503PU
Output voltage		0~30V x2	0~30V x2	0~50V x2	0~30V x2	0~30V x2	0~50V x2
Output current		0~3A x2	0~5A x2	0~3A x2	0~3A x2	0~5A x2	0~3A x2
Fixed output	CH3	2.5/3.3/5V/3A	2.5/3.3/5V/3A	2.5/3.3/5V/3A	2.5/3.3/5V/3A	2.5/3.3/5V/3A	2.5/3.3/5V/3A
	USB				5V/2A	5V/2A	5V/2A
Preset V&I					√	√	√
Output ON/OFF		√	√	√	√	√	√
Tracking operation		√	√	√	√	√	√
Dimension (WxHxD)		255x155x310mm					
Weight		8kg	9.5kg	9.5kg	8.5kg	10kg	10kg

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