

Multiple Output 195W~325W

Introduction

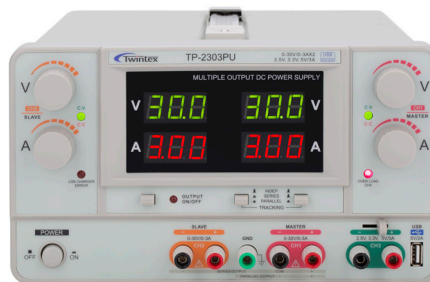
The TP2000PU series are linear DC power supplies with 3 channels, 195W to 325W output. In constant voltage and current operations, the power supply provides high regulation and low ripple & noise. Auto series and parallel operations double output voltage and current. A particular feature of the TP2000PU 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

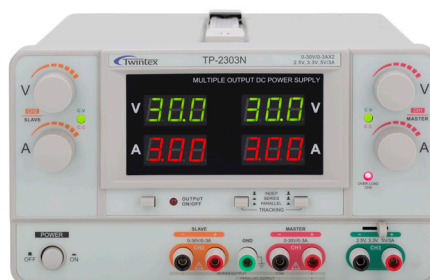
- ✓ Two independent adjustable outputs 0~30V/0~3A x2, 0~30V/5A x2, 0~50V/0~3A x2
- ✓ Fixed 2.5V/3.3V/5V/3A binding post output, and fixed 5V/2A USB output
- ✓ Constant voltage and constant current operations, auto CV and CC switch
- ✓ Low ripple and noise, low temperature drift
- ✓ Auto Series and Parallel 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



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		≤3mArms	≤6mArms	≤3mArms
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°C~40°C, ≤80%RH		
Storage environment		-10°C~70°C, ≤70%RH		
Power source		AC110V/220V±10%, 50/60Hz		
Accessories		Power cord x1, Operation manual x1, Test lead 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