

4CH Output 210W~330W

Introduction

The TP4000N series are linear DC power supplies with 4 channels, two main channels with 0~30V/0~50V output and two auxiliary channels with 2.2~15V output. Auto series and parallel operations double output voltage and current in the main channels (CH1/CH2). Auxiliary channels (CH3/CH4) can also be connected through external test leads to double output voltage and current. Automatic cooling fan control give sufficient cooling to the power supply and minimize fan noise. The output ON/OFF control and preset voltage & current function protect the power supply and related loads from unexpected damages. The TP4000N series are widely used in applications of powering operational amplifier, push pull stages, logic circuit and definition systems.

Features

- ✓ Two main channels with 0~30V/0~3A x2, 0~30V/5A x2, 0~50V/0~3A x2 output
- ✓ Two auxiliary channels with 2.2~15V/1A x2 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
- ✓ 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-4303N



Specifications

Model		TP-4303N	TP-4305N	TP-4503N
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/CH4)				
Output voltage		2.2V~15V		
Output current		Fixed 1A		
Load regulation		≤25mV@110V/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-4303N	TP-4305N	TP-4503N
Output voltage	0~30V x2	0~30V x2	0~50V x2
Output current	0~3A x2	0~5A x2	0~3A x2
Auxiliary output	2.2~15V/1A x2	2.2~15V/1A x2	2.2~15V/1A x2
Preset V&I	√	√	√
Output ON/OFF	√	√	√
Tracking operation	√	√	√
Dimension (WxHxD)	255x155x310mm		