

TP4000N Series (310W~330W)

Introduction

The TP4000N series are linear DC power supplies with 4 channels, two main channels with 0~30V 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 output, two auxiliary channels with 2.2~15V output
- ✓ Constant voltage and constant current operations
- ✓ Low ripple and noise, low temperature drift
- ✓ Auto Series and Parallel tracking operations
- ✓ Output ON/OFF control
- ✓ Preset voltage and current
- ✓ High efficiency, high power density
- ✓ Over load and reverse polarity protections
- ✓ Four 3 digits panel meters display
- ✓ SMD PCB, high quality, high reliability

Product photo

TP-4303N



Specifications

| Model | TP-4303N | | TP-4305N | TP-4503N |
|-----------------------------------|---|------------|--------------------------------|--------------------------------|
| Output | 0~30V/0~3A x2 2.2~15V/1A x2 | | 0~30V/0~5A x2 2.2~15V/1A x2 | 0~50V/0~3A x2 2.2~15V/1A x2 |
| Constant voltage operation | | | | |
| Line regulation | ≤0.01%+3mV | | | |
| Load regulation | ≤0.01%+3mV | ≤0.02%+5mV | | ≤0.01%+3mV |
| Ripple & Noise | ≤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 | ≤2mVrms | | | |
| Protection | Over load and reverse polarity protections | | | |
| 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 | | | | |
| Protection | Over load and reverse polarity protections | | | |
| Operating environment | 0°C~40°C, ≤80%RH | | | |
| Storage environment | -10°C~70°C, ≤70%RH | | | |
| Power source | AC110V/220V±10% selectable, 50/60Hz | | | |
| Accessories | Power cord x1, Operation manual x1, Test lead x1 | | | |
| Dimension | 250Wx150Hx310Dmm | | | |
| Weight | 8.5kg | 10kg | 10kg | |