

High Power DC Power Supply

High Power DC Power Supply TP-S series

Introduction

The TP-S series are high power output DC power supply with output range up to 5kW. The TP-S series can be made according to customer request, with output voltage up to 400V and output current up to 150A. Over Voltage Protection, Over Current Protection, Over Temperature Protection and Over Power Protection keep the TP-S series and their load safe from unexpected conditions. High Accuracy, high stability and low ripple & noise make the TP-S series an ideal solution for various industrial applications.

Features

- ✓ Max. output power ranging from 100W to 5kW
- ✓ Max. output voltage 400V, Max. output current 150A
- ✓ Applying advanced PWM control technology
- ✓ Compact design and light weight (5~11kg)
- ✓ Constant voltage (CV) and constant current (CC) operations
- ✓ Auto CV/CC switch
- ✓ Coarse and Fine control for voltage and current
- ✓ Multiple protections: OVP, OCP, OTP and OPP
- ✓ Adjustable OVP & OCP range, OPP fixed 110% of Max. power
- ✓ Intelligent temperature control cooling fan
- ✓ Optional functions: Remote Voltage Control; Remote Current Control; Output ON/OFF; Remote Sensing; Timer; Counter
- ✓ Customized specifications and functions acceptable

Product photo



Input module: Power Socket



Input module: Terminal Block

High Power DC Power Supply

Specifications

| | |
|---------------------------------|--|
| Output capacity | 100W~5kW |
| Working mode | PWM |
| Output | |
| Output voltage | DC 0~100% full range adjustable |
| Output current | DC 0~100% full range adjustable |
| OVP range | DC 0~100% of rated output |
| OCP range | DC 0~100% of rated output |
| Line regulation | CV≤0.2% + 2d CC≤0.5% + 2d |
| Load regulation | ≤0.5% + 2d |
| Ripple & Noise | ≤1% RMS |
| Display | |
| Meter | 3 1/2 digits LED display |
| Voltage resolution | 100mV |
| Current resolution | 10mA |
| Accuracy | ±1% ±1d |
| Optional functions | |
| Display meter | 4 1/2 digits LED display (Max. display 19999) |
| DC 10~0V remote voltage control | Terminal block; or Wires |
| DC 0~10V remote current control | Terminal block; or Wires |
| Output terminal | On front panel; or on rear panel; or on both front and rear panels |
| Output ON/OFF | Switch; or Terminal block; or Wires |
| Remote sensing | Terminal block |
| Timer | 1 set; or 2 sets |
| Counter | |
| General | |
| Protection | Over Voltage Protection (OVP), Over Current Protection (OCP), Over Temperature Protection (OTP), Over Power Protection (OPP) |
| Power source | AC110V or 220V±10%, 50/60Hz |
| Input module | Power socket or terminal block |
| Operating environment | 0°C~40°C, <80%RH |
| Storage environment | -10°C~70°C, <80%RH |
| Dimension | 260x160x380mm |

| High Power DC Power Supply Selection Guide | | | | | |
|--|----------------|----------------|-----------------|----------------|-------------|
| Model | Output Voltage | Output Current | Output Capacity | Input Module | Weight (kg) |
| TP15-30S | 0~15V | 0~30A | 450W | Power socket | 5.6 |
| TP15-50S | 0~15V | 0~50A | 750W | Power socket | 5.6 |
| TP15-60S | 0~15V | 0~60A | 900W | Power socket | 5.6 |
| TP15-80S | 0~15V | 0~80A | 1200W | Power socket | 5.6 |
| TP15-1HS | 0~15V | 0~100A | 1500W | Power socket | 5.6 |
| TP15-120S | 0~15V | 0~120A | 1800W | Power socket | 5.6 |
| TP15-150S | 0~15V | 0~150A | 2250W | Terminal block | 11 |
| TP30-30S | 0~30V | 0~30A | 900W | Power socket | 5.6 |
| TP30-40S | 0~30V | 0~40A | 1200W | Power socket | 5.6 |
| TP30-50S | 0~30V | 0~50A | 1500W | Power socket | 5.6 |
| TP30-60S | 0~30V | 0~60A | 1800W | Power socket | 5.6 |
| TP30-80S | 0~30V | 0~80A | 2400W | Terminal block | 11 |
| TP30-1HS | 0~30V | 0~100A | 3000W | Terminal block | 11 |
| TP30-150S | 0~30V | 0~150A | 4500W | Terminal block | 11 |
| TP50-10S | 0~50V | 0~10A | 500W | Power socket | 5.6 |
| TP50-30S | 0~50V | 0~30A | 1500W | Power socket | 5.6 |
| TP50-50S | 0~50V | 0~50A | 2500W | Terminal block | 11 |
| TP50-60S | 0~50V | 0~60A | 3000W | Terminal block | 11 |
| TP50-80S | 0~50V | 0~80A | 4800W | Terminal block | 11 |
| TP50-1HS | 0~50V | 0~100A | 5000W | Terminal block | 11 |
| TP60-20S | 0~60V | 0~20A | 1200W | Power socket | 5.6 |
| TP60-30S | 0~60V | 0~30A | 1800W | Power socket | 5.6 |
| TP60-50S | 0~60V | 0~50A | 3000W | Terminal block | 11 |
| TP60-60S | 0~60V | 0~60A | 3600W | Terminal block | 11 |
| TP60-80S | 0~60V | 0~80A | 4800W | Terminal block | 11 |
| TP1H-1S | 0~100V | 0~1A | 100W | Power socket | 5.6 |
| TP1H-3S | 0~100V | 0~3A | 300W | Power socket | 5.6 |
| TP1H-5S | 0~100V | 0~5A | 500W | Power socket | 5.6 |
| TP1H-10S | 0~100V | 0~10A | 1000W | Power socket | 5.6 |
| TP1H-20S | 0~100V | 0~20A | 2000W | Power socket | 5.6 |
| TP1H-30S | 0~100V | 0~30A | 3000W | Terminal block | 11 |
| TP1H-50S | 0~100V | 0~50A | 5000W | Terminal block | 11 |
| TP120-1S | 0~120V | 0~1A | 120W | Power socket | 5.6 |
| TP120-3S | 0~120V | 0~3A | 360W | Power socket | 5.6 |
| TP120-5S | 0~120V | 0~5A | 600W | Power socket | 5.6 |
| TP120-10S | 0~120V | 0~10A | 1200W | Power socket | 5.6 |
| TP120-20S | 0~120V | 0~20A | 2400W | Terminal block | 11 |
| TP120-30S | 0~120V | 0~30A | 3600W | Terminal block | 11 |
| TP120-40S | 0~120V | 0~40A | 4800W | Terminal block | 11 |

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|--|----------------|----------------|-----------------|----------------|-------------|
| Model | Output Voltage | Output Current | Output Capacity | Input Module | Weight (kg) |
| TP150-1S | 0~150V | 0~1A | 150W | Power socket | 5.6 |
| TP150-3S | 0~150V | 0~3A | 450W | Power socket | 5.6 |
| TP150-5S | 0~150V | 0~5A | 750W | Power socket | 5.6 |
| TP150-10S | 0~150V | 0~10A | 1500W | Power socket | 5.6 |
| TP150-20S | 0~150V | 0~20A | 3000W | Terminal block | 11 |
| TP150-30S | 0~150V | 0~30A | 4500W | Terminal block | 11 |
| TP2H-1S | 0~200V | 0~1A | 200W | Power socket | 5.6 |
| TP2H-3S | 0~200V | 0~3A | 600W | Power socket | 5.6 |
| TP2H-5S | 0~200V | 0~5A | 1000W | Power socket | 5.6 |
| TP2H-10S | 0~200V | 0~10A | 2000W | Power socket | 5.6 |
| TP2H-20S | 0~200V | 0~20A | 4000W | Terminal block | 11 |
| TP250-1S | 0~250V | 0~1A | 250W | Power socket | 5.6 |
| TP250-3S | 0~250V | 0~3A | 750W | Power socket | 5.6 |
| TP250-5S | 0~250V | 0~5A | 1250W | Power socket | 5.6 |
| TP250-10S | 0~250V | 0~10A | 2500W | Terminal block | 11 |
| TP250-20S | 0~250V | 0~20A | 5000W | Terminal block | 11 |
| TP3H-1S | 0~300V | 0~1A | 300W | Power socket | 5.6 |
| TP3H-2S | 0~300V | 0~2A | 600W | Power socket | 5.6 |
| TP3H-3S | 0~300V | 0~3A | 900W | Power socket | 5.6 |
| TP3H-5S | 0~300V | 0~5A | 1500W | Power socket | 5.6 |
| TP3H-10S | 0~300V | 0~10A | 3000W | Terminal block | 11 |
| TP4H-1S | 0~400V | 0~1A | 400W | Power socket | 5.6 |
| TP4H-2S | 0~400V | 0~2A | 800W | Power socket | 5.6 |
| TP4H-3S | 0~400V | 0~3A | 1200W | Power socket | 5.6 |
| TP4H-5S | 0~400V | 0~5A | 2000W | Power socket | 11 |
| TP4H-10S | 0~400V | 0~10A | 4000W | Terminal block | 11 |

Specifications are subject to change without prior notice.