

TP-2606 (Multiple Output, Dual Range)

Introduction

TP-2606 switching mode DC power supply provides 375W output capacity with three independent outputs and CH1/CH2 dual range output (30V/ 6A or 60V/3A), which accommodates a wide range of applications. On the basis of fixed output capacity, it enables output voltage or current to the maximum. With high power density and high conversion efficiency, multiple protections, high reliability, low noise and compact design, TP-2606 is completely adequate for satisfying mainstream power supply demands.

Features

- ✓ CH1/CH2 independent adjustable outputs with dual ranges 0~30V/0~6A x2, 0~60V/0~3A x2
- ✓ CH3 0.1~5V/3A, adjustable output
- ✓ Constant voltage and constant current operations, auto CV and CC switch
- ✓ Auto Series and Parallel tracking operations, providing flexible output of 30V/12A, 60V/6A or 120V/3A
- ✓ High power conversion efficiency, improving the power efficiency by 25%
- ✓ Manual and remote ON/OFF control
- ✓ **Preset function, setting of voltage and current with output open circuit**
- ✓ Manual over voltage protection
- ✓ Over voltage, over load, over temperature and reverse polarity protections
- ✓ Power source AC115V/230V auto switch
- ✓ Fan speed control circuit, minimizing fan acoustic noise
- ✓ Compact design, light weight
- ✓ Dual-color four digital panel meters

Product photo



TP-2606

Multiple Output Switching DC Power Supply



Specifications

| | |
|---|--|
| Rated output | CH1&CH2 Independent mode: 0~30V/0~6A; 0~60V/0~3A CH1&CH2 Series mode: 0~60V/0~6A; 0~120V/0~3A CH1&CH2 Parallel mode: 0~30V/0~12A; 0~60V/0~6A CH3: 0.1~5V/3A |
| Constant voltage operation | |
| Line regulation | $\leq 0.01\% + 3\text{mV}$ |
| Load regulation | $\leq 0.01\% + 5\text{mV}$ (rating current $\leq 6\text{A}$); $\leq 0.01\% + 8\text{mV}$ (rating current $\leq 12\text{A}$) |
| Ripple & Noise | $\leq 5\text{mVrms}$ (5Hz~1MHz); $\leq 50\text{mVpp}$ (20Hz~20MHz) |
| Constant current operation | |
| Line regulation | $\leq 0.2\% + 3\text{mA}$ |
| Load regulation | $\leq 0.2\% + 3\text{mA}$ |
| Ripple & Noise | $\leq 3\text{mA rms}$ |
| Tracking operation | |
| Tracking error | $\leq (0.5\% + 10\text{mV})$ of the master |
| Series regulation | $\leq 300\text{mV}$ |
| Ripple & Noise | $\leq 10\text{mVrms}$ (5Hz~1MHz); $\leq 100\text{mVpp}$ (20Hz~20MHz) |
| Remote output On/Off response time | |
| Voltage up (10%~90%) | $\leq 100\text{ms}$ ($\leq 95\%$ rated load) |
| Voltage down (90%~10%) | $\leq 100\text{ms}$ ($\geq 10\%$ rated load) |
| Auxiliary output (CH3) | |
| Output voltage | 0.1~5V, adjustable |
| Output current | 3A |
| Protection | Over voltage, over load, over temperature and reverse polarity protections |
| Over voltage protection | |
| Accuracy | $\pm (0.5\% \text{ reading} + 0.5\text{V})$ |
| Display | |
| Voltmeter | 3 1/2 digits LED display |
| Ammeter | 3 1/2 digits LED display |
| Resolution | 100mV/10mA |
| Accuracy | $\pm (0.5\% \text{ reading} + 2 \text{ digits})$ |
| General | |
| Protection | Over voltage and reverse polarity protections |
| Remote control | Output On/Off |
| Fan noise | $\leq 50\text{dB}$ |
| Insulation | Between base and output terminal: $\geq 100\text{M}\Omega/1000\text{VDC}$ Between base and AC power cord: $\geq 100\text{M}\Omega/1000\text{VDC}$ |
| Operating environment | 0~40°C, $\leq 80\%$ RH |
| Storage environment | 0°C~70°C, $\leq 70\%$ RH |
| Power source | AC115V/230V $\pm 15\%$ auto switch, 50/60Hz |
| Accessories | Power cord x1, Operation manual x1 |
| Dimension (WxHxD) | 250x150x310mm |
| Weight | 5.5kg |

Specifications are subject to change without prior notice.

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