

## DC Power Supply

### Triple-output Switching DC Power Supply (Laboratory Grade) TP-3606

#### Product description:

TP-3606 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, TP-3606 is completely adequate for satisfying mainstream power supply demands.



**TP-3606**

#### Features

- ◆ CH1/CH2 independent adjustable outputs with dual ranges 0~30V/0~6Ax2, 0~60V/0~3Ax2
- ◆ CH3 0.1~5V/3A, adjustable output
- ◆ Constant voltage and constant current operations, auto CV and CC switch
- ◆ Auto Series/Parallel tracking operations, providing flexible output 30V/12A, 60V/6A or 120V/3A
- ◆ High power conversion efficiency, improving the power efficiency by 25%
- ◆ Preset function, setting of voltage and current with output open circuit
- ◆ Over voltage, over load, over temperature and reverse polarity protections
- ◆ Fan speed control circuit, minimizing fan acoustic noise
- ◆ Dual-color four digital panel meters
- ◆ Manual and remote ON/OFF control
- ◆ Manual over voltage protection
- ◆ Power source AC115V/230V auto switch
- ◆ Compact design, light weight

#### Ordering Informations

**TP-3606** : Triple-output Switching DC Power Supply  
 0~30V/6A\*2CH, 0~60V/3A\*2CH, 0.1~5V/3A\*1CH

#### Standard Accessories :

- User Manual
- Power cord
- Test lead

#### Specifications

| Model                                     | TP-3606                                                                                                                                                                                                        |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Output                              | CH1 & CH2 : Independent mode: 0 ~ 30V/0 ~ 6A, 0 ~ 60V/ 0 ~ 3A<br>CH1 & CH2 : Series mode: 0 ~ 60V/0 ~ 6A, 0 ~ 120V/ 0 ~ 3A<br>CH1 & CH2 : Parallel mode: 0 ~ 30V/0 ~ 12A, 0 ~ 60V/ 0 ~ 6A<br>CH3 : 0.1 ~ 5V/3A |
| <b>Constant Voltage Operation</b>         |                                                                                                                                                                                                                |
| Line Regulation                           | ≤0.01%+3mV                                                                                                                                                                                                     |
| Load Regulation                           | ≤0.01%+5mV (rating current : ≤6A); ≤0.01%+8mV (rating current ≤12A)                                                                                                                                            |
| Ripple & Noise                            | ≤5mVrms (5Hz ~ 1MHz); ≤50mVp-p (20Hz ~ 20MHz)                                                                                                                                                                  |
| <b>Constant Current Operation</b>         |                                                                                                                                                                                                                |
| Line Regulation                           | ≤0.2%+3mA                                                                                                                                                                                                      |
| Load Regulation                           | ≤0.2%+3mA                                                                                                                                                                                                      |
| Ripple & Noise                            | ≤3mAms                                                                                                                                                                                                         |
| <b>Tracking Operation</b>                 |                                                                                                                                                                                                                |
| Tracking Error                            | ≤(0.5%+10mV) of the master                                                                                                                                                                                     |
| Series Regulation                         | ≤300mV                                                                                                                                                                                                         |
| Ripple & Noise                            | ≤10mVrms (5Hz ~ 1MHz); ≤100mVp-p (20Hz ~ 20MHz)                                                                                                                                                                |
| <b>Remote Output On/Off Response Time</b> |                                                                                                                                                                                                                |
| Voltage Up (10% ~ 90%)                    | ≤100ms (≤95% rated load)                                                                                                                                                                                       |
| Voltage Down (90 ~ 100%)                  | ≤100ms (≥10% rated load)                                                                                                                                                                                       |
| <b>Auxiliary Output (CH3)</b>             |                                                                                                                                                                                                                |
| Output Voltage                            | 0.1 ~ 5V, adjustment                                                                                                                                                                                           |
| Output Current                            | 3A                                                                                                                                                                                                             |
| <b>Display</b>                            |                                                                                                                                                                                                                |
| Voltmeter & Ammeter                       | 3 ½ digits LED Display                                                                                                                                                                                         |
| Resolution                                | 100mV/10mA                                                                                                                                                                                                     |
| Accuracy                                  | ±(0.5% reading +2digits)                                                                                                                                                                                       |
| <b>General Specifications</b>             |                                                                                                                                                                                                                |
| Protection                                | Over voltage and reverse polarity protection                                                                                                                                                                   |
| Fan Noise                                 | ≤50dB                                                                                                                                                                                                          |
| Insulation                                | Between base and output terminal : ≥20MΩ/500VDC<br>Between base and AC power cord : ≥300MΩ/500VDC                                                                                                              |
| Operation Environment                     | 0°C ~ 40°C <80%RH                                                                                                                                                                                              |
| Storage Environment                       | -10°C ~ 70°C, <70%RH                                                                                                                                                                                           |
| Power Input                               | AC 115/230V±15%, auto switch, 50/60Hz                                                                                                                                                                          |
| Dimension (WxHxD)                         | 250 x 150 x 310 mm.                                                                                                                                                                                            |
| Weight                                    | 5.5kg                                                                                                                                                                                                          |