

## DSD-3606 多路双范围开关直流电源 Multi-channel Dual-range Switching Power Supply

### 产品特点 Product Features

- CH1&CH2 双范围 30V/6A 及 60V/3A 输出选择 CH1&CH2 dual range 30V/6A and 60V/3A output selection
- CH3 0.1-5V/3A 电压可调 CH3 0.1-5V/3A voltage adjustable
- 自动串/并联跟踪操作下，能灵活输出 30V/12A, 60V/6A or 120V/3A Under automatic series / parallel tracking operation, flexibly output 30V/12A, 60V/6A or 120V/3A
- 高效功率转换能力，相比传统电源提升 25% High-efficiency power conversion capability, 25% higher than traditional power supply
- 手动及远程 ON/OFF 输出控制 Manual and remote ON / OFF output control
- 过电压、过温、过载、极性反向保护 Over voltage, over temperature, overload, and reverse polarity protection
- AC 电源 115V/230V 内部自动切换 115V / 230V internal automatic switching under AC power
- 温控风扇电路，有效降低噪音 Temperature control fan circuit, effectively reduce noise



DSD-3606

### 主要技术指标 Main Specifications

|                                            |                                                                                                          |                              |                                |           |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-----------|
| 型号                                         | DSD3606                                                                                                  |                              |                                |           |
| 通道与输出模式<br>Channels and output models      | CH1&CH2 独立模式<br>Independent Model                                                                        | CH1&CH2 串联模式<br>Series Model | CH1&CH2 并联模式<br>Parallel Model | CH3       |
| 输出额定值<br>Output rating                     | 0~30V/0~6A;<br>0~60V/0~3A                                                                                | 0~60V/0~6A;<br>0~120V/0~3A   | 0~30V/0~12A;<br>0~60V/0~6A     | 0.1~5V/3A |
| 稳压特性 Voltage Stabilization Characteristics |                                                                                                          |                              |                                |           |
| 电源效应 Power effect ion                      | ≤0.01%+3mV                                                                                               |                              |                                |           |
| 负载效应 Load effect                           | ≤0.01%+5mV ( rating current≤6A ) ； ≤0.01%+8mV ( rating current≤12A )                                     |                              |                                |           |
| 纹波与噪声 Ripple and noise                     | ≤5mVrms ( 5Hz~1MHz ) ； ≤50mVpp ( 20Hz~20MHz )                                                            |                              |                                |           |
| 恢复时间 Recovery Time                         | 100μs ( 50% load change, min load 0.5A )                                                                 |                              |                                |           |
| 稳流特性 Current Stabilization Characteristics |                                                                                                          |                              |                                |           |
| 电源效应 Power effect ion                      | ≤0.2%+3mA                                                                                                |                              |                                |           |
| 负载效应 Load effect                           | ≤0.2%+3mA                                                                                                |                              |                                |           |
| 纹波与噪声 Ripple and noise                     | ≤3mArms                                                                                                  |                              |                                |           |
| 追踪操作 Tracking operation                    |                                                                                                          |                              |                                |           |
| 跟踪误差 Tracking error                        | ≤0.5%+10mV of the master                                                                                 |                              |                                |           |
| 串联变动率<br>Rate of change in series          | ≤300mV                                                                                                   |                              |                                |           |
| 涟波和噪声 Ripples and noise                    | ≤10mVrms ( 5Hz~1MHz ) ； ≤100mVpp ( 20Hz~20MHz )                                                          |                              |                                |           |
| 输出 ON/OFF 响应时间                             |                                                                                                          |                              |                                |           |
| 电压上升时间 ( 10%~90% )                         | ≤100ms ( ≤90%额定负载 rated load )                                                                           |                              |                                |           |
| 电压下降时间 ( 90%~10% )                         | ≤100ms ( ≥10%额定负载 rated load )                                                                           |                              |                                |           |
| OVP                                        |                                                                                                          |                              |                                |           |
| 精确度 Accuracy                               | ±(0.5%读值 of reading+0.5V)                                                                                |                              |                                |           |
| 显示 Display                                 |                                                                                                          |                              |                                |           |
| 类型 Type                                    | 3 位半 3 ½ digit , 0.39" LED                                                                               |                              |                                |           |
| 精确度 Accuracy                               | ±(0.5%读值 of reading+2 位数 digits)                                                                         |                              |                                |           |
| 分辨率 Resolution                             | 100mV/10mA                                                                                               |                              |                                |           |
| 保护 Protection                              | 过载，过温，过电压，输出反极性保护 Overload, over temperature, over voltage, output reverse polarity protection           |                              |                                |           |
| 远程控制 Remote control                        | 输出 On/Off Output On/Off                                                                                  |                              |                                |           |
| 风扇噪声 Fan noise                             | ≤50dB                                                                                                    |                              |                                |           |
| 温度系数 Temperature coefficient               | 电压 Voltage:≤100ppm/°C+3mV 电流 Current:≤150ppm/°C+3mA                                                      |                              |                                |           |
| 绝缘度 Insulation degree                      | 底座与端子间 between base and terminal:≥100MΩ/1000VDC 底座与交流电源线间 between base and AC power cable:≥100MΩ/1000VDC |                              |                                |           |

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|---------------------------------------------|----------------------------------------------------------------------|
| <b>使用环境</b><br><b>Operation environment</b> | 环境温度 Environment temperature:0~40°C<br>相对湿度 Relative humidity:≤80%   |
| <b>存储条件</b><br><b>Storage environment</b>   | 环境温度 Environment temperature:0°C~70°C<br>相对湿度 Relative humidity:≤70% |
| <b>电源 Power supply</b>                      | AC 115V/230V±15% 50Hz/60Hz                                           |
| <b>附件 Accessories</b>                       | 用户手册 Manual, 电源线 Power cable                                         |
| <b>尺寸 Dimensions</b>                        | 310(D)×250(W)×150(H)mm                                               |
| <b>重量 Weight</b>                            | 5.5kg                                                                |