

SPD-3606



High Economic value D.C. Power Supply

SPD-3606 DC power supply provides 375W capability, three isolated outputs with dual-range for CH1/CH2, highly efficient power conversion, low noise, highly reliability, thorough protection design, and compact size. SPD-3606 creates a new bench mark for satisfying main stream power supply demand.

Dual-Range

CH1/CH2 of SPD-3606 offer dual-range output either at 30V/6A or 60V/3A per channel to accommodate broad application in one unit. With the auto Series/Parallel tracking operation, SPD-3606 is able to provide the master output at 30V/12A, 60V/6A, or 120V/3A. One SPD-3606 can cover three-output applications and wide combinations of voltage/current output.

High Efficiency and High Power Density

High power conversion efficiency lets SPD-3606 consume less energy and align with global environment protection concern. Besides, the high power densities make SPD-3606 weigh less than half and occupy much less space than equal power rating linear power supply, which is used to be quite heavy and bulky.

Thorough Design of Protection

To avoid the damage caused by improper operation to SPD-3606 and DUT, SPD-3606 provides numerous protection features such as reverse polarity protection, OVP (Over Voltage Protection) and OTP (Over Temperature Protection). In case the wrong AC Power is connected, SPD-3606 automatically selects can cope with it by switching 115V/230V source internally.

Manual or Remote Output on/Off Control

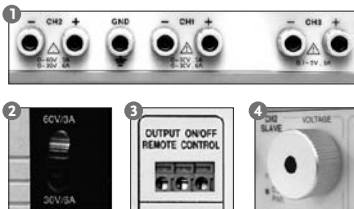
SPD-3606 provides Output on/off function. User can preset the voltage/current value and check the connection between DUT and power supply is ready. Then users could control output on/off by manual switching or by remote connection. SPD-3606 also provides volume guard function. It is an optional item which replaces the regular Voltage/Current knobs to prevent accidentally changing the output level. It is useful for automated testing at fixed output level, such as assembly line inspection.

FEATURES

- Three Independent, Isolated Output
- CH1/CH2 : Dual Range Output of 30V/6A or 60V/3A to Cover Wide Application
- CH3 Adjustable Output : 0.1~5V/3A
- High Efficiency Power Conversion (Up to 25% Then Traditional Power Supply)
- Remote Control Output On/Off
- OVP to Protect the DUT
- OTP to Protect SPD-3606 and Reduce the Repair Rate
- Automatically Switching AC 115V/230V Source
- Fully Safety Design: Reverse Polarity, CH3 Overload Protection, Safe Output Setting, CC/CV Mode
- High Power Density: Compact Size, Light Weight
- Low Fan Acoustic Noise with Fan Speed Control Circuit

APPLICATIONS

- R&D Design and Verification
- QA Verification
- Production Test



FOUR FEATURES

1. Three Independent, Isolated Output
2. Dual Range Output of 30V/6A or 60V/3A
3. Remote Control Output On/Off
4. Voltage/Current protection Knob (Option)

SPECIFICATIONS

| | | |
|------------------------------------|---|---|
| OUTPUT RATINGS | CH1/CH2 Independent | 0 ~ 30V / 0 ~ 6A 0 ~ 60V / 0 ~ 3A |
| | CH1/CH2 Series | 0 ~ 60V / 0 ~ 6A |
| | CH1/CH2 Parallel | 0 ~ 120V / 0 ~ 3A 0 ~ 30V / 0 ~ 12A |
| | CH3 | 0 ~ 60V / 0 ~ 6A 0.1 ~ 5V / 3A |
| VOLTAGE REGULATION | Line Load | ≤ 0.01% + 3mV ≤ 0.01% + 5mV (rating current ≤ 6A) |
| | Ripple & Noise | ≤ 0.01% + 8mV (rating current ≤ 12A) ≤ 5mVrms (5Hz ~ 1MHz) |
| | Recovery Time | ≤ 50mVpp (20Hz ~ 20MHz) ≤ 100μs (50% load change, minimum load 0.5A) |
| CURRENT REGULATION | Line Load | ≤ 0.2% + 3mA ≤ 0.2% + 3mA |
| | Ripple & Noise | ≤ 3mArms |
| TRACKING OPERATION | Tracking Error | ≤ 0.5% + 10mV of master |
| | Series Regulation | ≤ 300mV |
| | Ripple & Noise | ≤ 10mVrms (5Hz ~ 1MHz) ≤ 100mVpp (20Hz ~ 20MHz) |
| OUTPUT ON/OFF RESPONSE TIME | Voltage Up (10% ~ 90%) | ≤ 100ms (≤ 95% rating load) |
| | Voltage Down (90% ~ 10%) | ≤ 100ms (≥ 10% rating load) |
| OVP | Accuracy | ± (0.5% of reading + 0.5V) |
| METER | Type | 3 1/2 digits 0.5" LED display |
| | Accuracy | ± (0.5% of reading + 2 digits) |
| | Resolution | 100mV/10mA |
| INSULATION | Chassis & Terminal | 100MΩ or above (DC 1000V) |
| | Chassis & AC code | 100MΩ or above (DC 1000V) |
| TEMPERATURE COEFFICIENT | Voltage | ≤ 100ppm/°C + 3mV |
| | Current | ≤ 150ppm/°C + 3mA |
| REMOTE CONTROL | Output On/Off | |
| FAN NOISE | ≤ 50dB | |
| OPERATION ENVIRONMENT | Ambient temperature 0 ~ 40 °C ; Relative humidity ≤ 80% | |
| STORAGE ENVIRONMENT | Ambient temperature -10 ~ 70 °C ; Relative humidity ≤ 70% | |
| POWER SOURCE | AC 115V/230V ±15%, 50/60Hz | |
| ACCESSORIES | User manual x 1, Power code x 1, Test lead GTL-104 x 2, GTL-105 x 1 | |
| DIMENSIONS & WEIGHT | 255 (W) x 145 (H) x 265 (D) mm ; Approx. 6kg | |

Specifications subject to change without notice. PD-3606GD0DH

ORDERING INFORMATION

SPD-3606 375W Dual Range D.C. Power Supply

Global Headquarters

GOOD WILL INSTRUMENT CO., LTD.

No. 7-1, Jhongsing Road, Tucheng City, Taipei County 236, Taiwan
T +86-21-2268-0389 F +86-21-2268-0639
E-mail: marketing@goodwill.com.tw

China Subsidiary

INSTEK ELECTRONIC (SHANGHAI) CO., LTD.

8F, of NO.2 Building, No.889 Yishan Road, Shanghai China
T +86-21-6485-3399 F +86-21-5450-0789
E-mail: marketing@instek.com.cn

Japan Subsidiary

INSTEK JAPAN CORPORATION

4F, Prosper Bldg, 1-3-3 Iwamoto-Cho Chiyoda-Ku,
Tokyo 101-0032 Japan
T +81-3-5823-5656 F +81-3-5823-5656
E-mail: info@instek.jp

U.S.A. Subsidiary

INSTEK AMERICA CORP.

3661 Walnut Avenue Chino, CA 91710, U.S.A.
T +1-909-5918358 F +1-909-5912280
E-mail: sales@instek.com

Malaysia Subsidiary

GOOD WILL INSTRUMENT (M) SDN. BHD.

27, Persiaran Mahsuri 1/1, Sunway Tunas,
11900 Bayan Lepas, Penang, Malaysia.

GW INSTEK

instek.com.tw



ES France - Département Puissance Energie
127 rue de Buzenval BP 26 - 92380 Garches



Tel. 01 47 95 99 45



e-mail : tem@es-france.com
Site Web : www.es-france.com