

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

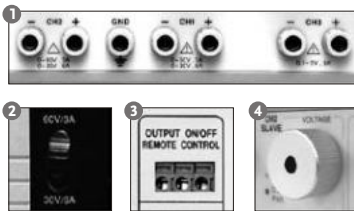
SPD-3606 provides Output on/off function. User can preset the voltage/current value and check the connection between DUT and power supply is ready. Then users could control output on/off by manual switching or by remote connection. SPD-3606 also provides volume guard function. It is an optional item 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	$\leq 0.01\% + 3mV$ $\leq 0.01\% + 5mV$ (rating current $\leq 6A$) $\leq 0.01\% + 8mV$ (rating current $\leq 12A$)
	Ripple & Noise	$\leq 5mV_{rms}$ (5Hz ~ 1MHz) $\leq 50mV_{pp}$ (20Hz ~ 20MHz)
	Recovery Time	$\leq 100\mu s$ (50% load change, minimum load 0.5A)
CURRENT REGULATION	Line Load	$\leq 0.2\% + 3mA$ $\leq 0.2\% + 3mA$
	Ripple & Noise	$\leq 3mArms$
TRACKING OPERATION	Tracking Error	$\leq 0.5\% + 10mV$ of master
	Series Regulation	$\leq 300mV$
	Ripple & Noise	$\leq 10mV_{rms}$ (5Hz ~ 1MHz) $\leq 100mV_{pp}$ (20Hz ~ 20MHz)
OUTPUT ON/OFF RESPONSE TIME	Voltage Up (10% ~ 90%)	$\leq 100ms$ ($\leq 95\%$ rating load)
	Voltage Down (90% ~ 10%)	$\leq 100ms$ ($\geq 10\%$ rating load)
OVP	Accuracy	$\pm (0.5\%$ of reading + 0.5V)
METER	Type	3 1/2 digits 0.5" LED display
	Accuracy	$\pm (0.5\%$ of reading + 2 digits)
	Resolution	100mV/10mA
INSULATION	Chassis & Terminal	100M Ω or above (DC 1000V)
	Chassis & AC code	100M Ω or above (DC 1000V)
TEMPERATURE COEFFICIENT	Voltage	$\leq 100ppm/^{\circ}C + 3mV$
	Current	$\leq 150ppm/^{\circ}C + 3mA$
REMOTE CONTROL	Output On/Off	
FAN NOISE	$\leq 50dB$	
OPERATION ENVIRONMENT	Ambient temperature 0 ~ 40 $^{\circ}C$; Relative humidity $\leq 80\%$	
STORAGE ENVIRONMENT	Ambient temperature -10 ~ 70 $^{\circ}C$; Relative humidity $\leq 70\%$	
POWER SOURCE	AC 115V/230V $\pm 15\%$, 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-3603 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 +886-2-2268-0389 F +886-2-2268-0639
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 +81-3-5823-5655
E-mail: info@instek.co.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.
T +604-6309988 F +604-6309989
E-mail: ettan@goodwill.com.my

GW INSTEK

www.gwinstek.com.tw