

SPD-3606 375W D.C. Power Supply

New Product Announcement

Good Will Instrument is announcing its new SPD-3606 DC Power Supply to the global market. SPD-3606 provides 375W output power, three isolated outputs with dual range Power for CH1/CH2, highly efficient power conversion, low noise, high reliability, thorough protection design, and compact size. SPD-3606 establishes a new platform for GW Instek switching power supply product line.



Dual-Range Power

CH1/CH2 of SPD-3606 offer dual-range output either at 30V/6A or 60V/3A per channel to accommodate broad applications in one unit. With 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 types and a wide range of output voltage/current combinations.

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 density makes SPD-3606 weigh less than half and occupy much less space than a linear power supply at the same power rating.

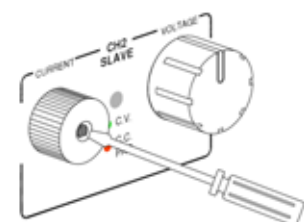


Thorough Protection Design

To avoid the damage over SPD-3606 and DUT caused by improper user operation, 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 115V/230V source internally.

Manual or Remote Output on/off Control

SPD-3606 provides Output on/off function. Users can preset the voltage and current level, check the DUT connection, then on/off the output by manual switching or by remote control. Also provided as an optional item is the volume guard knob, which replaces the regular Voltage/Current knob to prevent accidental output level change. Volume guard is useful for automated testing at fixed output level, such as assembly line inspection.



Key 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 Power Conversion Efficiency (max. 20% better than traditional power supply)
- Remote/Manual Control Output on/off
- OVP for DUT Protection
- OTP for SPD-3606 Protection and for reducing the repair rate
- Automatic AC 115V/230V Source Switch
- Full Safety Design: Reverse Polarity Protection, CH3 Overload Protection, Safe Output Setting , CC/CV Mode
- High Power Density, Compact Size and Light Weight
- Low Fan Acoustic Noise with Fan Speed Control Circuit
- Volume Guard to prevent accidentally change output(VR Protect Knob, Optional)

SPD-3606 Product Position

1. Multiple output applications, especially for three output demands.
2. Wide range of voltage/current power supply demands in industrial and educational filed.
3. Thorough protection design to avoid the damage to SPD-3606 and DUT.
4. Manual and Remote output on/off control function for product line demands.
5. Compact size and light weight for small space factor.
6. Excellent product quality, technical support, and after service.

Specification		
Output Ratings	CH1/CH2 Independent	0 ~ 30V / 0 ~ 6A 0 ~ 60V / 0 ~ 3A
	CH1/CH2 Series	0 ~ 60V / 0 ~ 6A 0 ~ 120V / 0 ~ 3A
	CH1/CH2 Parallel	0 ~ 30V / 0 ~ 12A 0 ~ 60V / 0 ~ 6A
	CH3	0.1 ~ 5V / 0 ~ 3A
	Voltage Regulation	Line
	Load	≤ 0.01% + 5mV
	Ripple & Noise	≤ 5mVrms (5Hz ~ 1MHz) ≤ 50mV _{P-P} (20Hz ~ 20MHz)
	Recovery Time	≤ 100μs (50% load change, minimum load 0.5A)
Current Regulation	Line	≤ 0.2% + 3mA
	Load	≤ 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 ½ digits 0.5" LED display
	Accuracy	± (0.5% of reading + 2 digits)
	Resolution	100mV/10mA
Insulation	Chassis and Terminal	100MΩ or above (DC 1000V)
	Chassis and AC cord	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 cord x 1
		Test lead GTL-104 x 2
Dimensions		255 (W) x 145 (H) x 265 (D) mm
Weight		Approx. 6kg

Ordering Information

SPD-3606	375W Dual Range D.C. Power Supply
Opt. 01	VR Protect Knob x 4