



## 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

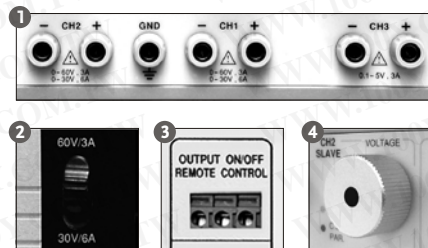
SPD-3606 provides Output on/off function. User can preset the voltage/current value and check the connection between DUT and power supply is ready. Then users could control output on/off by manual switching or by remote connection. SPD-3606 also provides volume guard function. It is an optional item 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
- Voltage/Current protection Knob(Optional)

## 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(Optional)

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**GW INSTEK**

SPECIFICATIONS		
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 / 3A
VOLTAGE REGULATION	Line Load	$\leq 0.01\% + 3\text{mV}$ $\leq 0.01\% + 5\text{mV}$ (rating current $\leq 6\text{A}$ ) $\leq 0.01\% + 8\text{mV}$ (rating current $\leq 12\text{A}$ )
	Ripple & Noise	$\leq 5\text{mVrms}$ (5Hz ~ 1MHz) $\leq 50\text{mVpp}$ (20Hz ~ 20MHz)
	Recovery Time	$\leq 100\mu\text{s}$ (50% load change, minimum load 0.5A)
CURRENT REGULATION	Line Load	$\leq 0.2\% + 3\text{mA}$ $\leq 0.2\% + 3\text{mA}$
	Ripple & Noise	$\leq 3\text{mArms}$
TRACKING OPERATION	Tracking Error	$\leq 0.5\% + 10\text{mV}$ of master
	Series Regulation	$\leq 300\text{mV}$
	Ripple & Noise	$\leq 10\text{mVrms}$ (5Hz ~ 1MHz) $\leq 100\text{mVpp}$ (20Hz ~ 20MHz)
OUTPUT ON/OFF RESPONSE TIME	Voltage Up (10% ~ 90%)	$\leq 100\text{ms}$ ( $\leq 95\%$ rating load)
	Voltage Down (90% ~ 10%)	$\leq 100\text{ms}$ ( $\geq 10\%$ rating load)
OVP	Accuracy	$\pm (0.5\% \text{ of reading} + 0.5\text{V})$
METER	Type	3 $\frac{1}{2}$ digits 0.5" LED display
	Accuracy	$\pm (0.5\% \text{ of reading} + 2 \text{ digits})$
	Resolution	100mV/10mA
INSULATION	Chassis & Terminal	100M $\Omega$ or above (DC 1000V)
	Chassis & AC code	100M $\Omega$ or above (DC 1000V)
TEMPERATURE COEFFICIENT	Voltage	$\leq 100\text{ppm}/^\circ\text{C} + 3\text{mV}$
	Current	$\leq 150\text{ppm}/^\circ\text{C} + 3\text{mA}$
REMOTE CONTROL	Output On/Off	
FAN NOISE	$\leq 50\text{dB}$	
OPERATION ENVIRONMENT	Ambient temperature 0 ~ 40 $^\circ\text{C}$ ; Relative humidity $\leq 80\%$	
STORAGE ENVIRONMENT	Ambient temperature -10 ~ 70 $^\circ\text{C}$ ; 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-3606	375W Dual Range D.C. Power Supply

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