



## 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

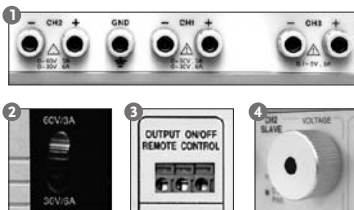
High power conversion efficiency lets SPD-3606 consume less energy and align with global environment protection concern. Besides, the high power densities make SPD-3606 weigh less than half and occupy much less space than equal power rating linear power supply, which is used to be quite heavy and bulky.

### 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.



### 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)

## SPD-3606

### 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

## SPECIFICATIONS

<b>OUTPUT RATINGS</b>	<b>CH1/CH2 Independent</b>	0 ~ 30V / 0 ~ 6A 0 ~ 60V / 0 ~ 3A
	<b>CH1/CH2 Series</b>	0 ~ 60V / 0 ~ 6A
	<b>CH1/CH2 Parallel</b>	0 ~ 120V / 0 ~ 3A 0 ~ 30V / 0 ~ 12A
	<b>CH3</b>	0 ~ 60V / 0 ~ 6A 0.1 ~ 5V / 3A
<b>VOLTAGE REGULATION</b>	<b>Line Load</b>	$\leq 0.01\% + 3mV$ $\leq 0.01\% + 5mV$ (rating current $\leq 6A$ ) $\leq 0.01\% + 8mV$ (rating current $\leq 12A$ )
	<b>Ripple &amp; Noise</b>	$\leq 5mV_{rms}$ (5Hz ~ 1MHz) $\leq 50mV_{pp}$ (20Hz ~ 20MHz)
	<b>Recovery Time</b>	$\leq 100\mu s$ (50% load change, minimum load 0.5A)
<b>CURRENT REGULATION</b>	<b>Line Load</b>	$\leq 0.2\% + 3mA$ $\leq 0.2\% + 3mA$
	<b>Ripple &amp; Noise</b>	$\leq 3mArms$
<b>TRACKING OPERATION</b>	<b>Tracking Error</b>	$\leq 0.5\% + 10mV$ of master
	<b>Series Regulation</b>	$\leq 300mV$
	<b>Ripple &amp; Noise</b>	$\leq 10mV_{rms}$ (5Hz ~ 1MHz) $\leq 100mV_{pp}$ (20Hz ~ 20MHz)
<b>OUTPUT ON/OFF RESPONSE TIME</b>	<b>Voltage Up (10% ~ 90%)</b>	$\leq 100ms$ ( $\leq 95\%$ rating load)
	<b>Voltage Down (90% ~ 10%)</b>	$\leq 100ms$ ( $\geq 10\%$ rating load)
<b>OVP</b>	<b>Accuracy</b>	$\pm (0.5\%$ of reading + 0.5V)
<b>METER</b>	<b>Type</b>	3 1/2 digits 0.5" LED display
	<b>Accuracy</b>	$\pm (0.5\%$ of reading + 2 digits)
	<b>Resolution</b>	100mV/10mA
<b>INSULATION</b>	<b>Chassis &amp; Terminal</b>	100M $\Omega$ or above (DC 1000V)
	<b>Chassis &amp; AC code</b>	100M $\Omega$ or above (DC 1000V)
<b>TEMPERATURE COEFFICIENT</b>	<b>Voltage</b>	$\leq 100ppm/^{\circ}C + 3mV$
	<b>Current</b>	$\leq 150ppm/^{\circ}C + 3mA$
<b>REMOTE CONTROL</b>	Output On/Off	
<b>FAN NOISE</b>	$\leq 50dB$	
<b>OPERATION ENVIRONMENT</b>	Ambient temperature 0 ~ 40 $^{\circ}C$ ; Relative humidity $\leq 80\%$	
<b>STORAGE ENVIRONMENT</b>	Ambient temperature -10 ~ 70 $^{\circ}C$ ; Relative humidity $\leq 70\%$	
<b>POWER SOURCE</b>	AC 115V/230V $\pm 15\%$ , 50/60Hz	
<b>ACCESSORIES</b>	User manual x 1, Power code x 1, Test lead GTL-104 x 2, GTL-105 x 1	
<b>DIMENSIONS &amp; WEIGHT</b>	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

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