

MULTIPLE OUTPUT DUAL RANGE D.C. POWER SUPPLY



SPD-3606

NEW



FEATURES

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

The SPD-3606 DC power supply provides 375W output capacity, three isolated outputs with dual-range for CH1 & CH2, highly efficient power conversion, low noise, high reliability, thorough protection, excellent value and a compact size. The SPD-3606 creates a new bench mark for satisfying mainstream power supply demands. CH1 & CH2 offer dual-range output either at 30V/6A or 60V/3A per channel to accommodate a wide range of applications. The SPD-3606 supports series and parallel tracking, allowing the CH1 and CH2 to be internally connected in series or parallel providing flexible output (30V/12A, 60V/6A, or 120V/3A). High power density and high power conversion efficiency lets the SPD-3606 consume less energy making for a greener power supply. In addition, the high power density makes the SPD-3606 weigh less than half and occupy much less space compared to linear power supplies. To avoid damage caused by improper operation, it also has OVP and OTP. The dual range AC input accepts both 115V and 230V inputs. When the instrument is on, devices can be connected and voltage/current levels can be adjusted safely from the front panel by turning off the output using the Output on/off key. The optional voltage/current protection knobs can be used to prevent accidentally changing the output levels. These knobs are useful for automated testing at fixed output levels, such as in assembly lines or product inspections.

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	$\leq 0.01\% + 3\text{mV}$
Load	$\leq 0.01\% + 5\text{mV}$ (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	$\leq 0.2\% + 3\text{mA}$
Load	$\leq 0.2\% + 3\text{mA}$
Ripple & Noise	$\leq 3\text{mA}_{\text{rms}}$

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	$\pm (0.5\% \text{ of reading} + 0.5\text{V})$
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METER

Type	3 $\frac{1}{2}$ digit 0.5" LED display
Accuracy	$\pm (0.5\% \text{ of reading} + 2 \text{ digits})$
Resolution	100mV/10mA

INSULATION

Chassis & Terminal	100M Ω or above (DC 1000V)
Chassis & AC code	100M Ω or above (DC 1000V)

TEMPERATURE COEFFICIENT

Voltage	$\leq 100\text{ppm}/^\circ\text{C} + 3\text{mV}$
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

DIMENSIONS & WEIGHT

255 (W) x 145 (H) x 265 (D) mm ; Approx. 6kg



SPD-3606

Rear Panel



ORDERING INFORMATION

SPD-3606 Multiple Output Dual Range D.C. Power Supply

ACCESSORIES :

User manual x 1, Power code x 1, Test lead GTL-104 x 2, GTL-105 x 1
European Test Lead GTL-201 x 1, GTL-203 x 1, GTL-204 x 2

OPTIONAL ACCESSORIES

GPS-001 Voltage/Current protection Knob

GPS-001

Voltage/Current protection Knob

