

# Multiple Output Dual Range D.C. Power Supply



## SPD-3606



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.

### 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 , C.C./C.V. Mode
- \* Compact Size, Light Weight
- \* Low Fan Acoustic Noise with Fan Speed Control Circuit
- \* Voltage/Current Protection Knob(Optional)

### 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	≤ 0.01% + 3mV
Load	≤ 0.01% + 5mV (rating current ≤ 6A) ≤ 0.01% + 8mV (rating current ≤ 12A)
Ripple & Noise	≤ 5mVrms (5Hz ~ 1MHz) ; ≤ 50mVpp (20Hz ~ 20MHz)
Recovery Time	≤ 100 μs (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 1/2 digit 0.5" LED display
Accuracy	± (0.5% of reading + 2 digits)
Resolution	100mV/10mA
INSULATION	
Chassis & Terminal	100MΩ or above (DC 1000V)
Chassis & AC code	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
DIMENSIONS & WEIGHT	
	255 (W) x 145 (H) x 265 (D) mm ; Approx. 6kg

# Multiple Output Dual Range D.C. Power Supply

Rear Panel



**SPD-3606**

GPS-001

Voltage/Current protection Knob



## ORDERING INFORMATION

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

### ACCESSORIES :

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

### OPTIONAL ACCESSORIES

**GPS-001** Voltage/Current protection Knob

SPD-3606

POWER SUPPLIES