

## SWITCHING D.C. POWER SUPPLIES

### Switching DC Power Supply

GW Instek offers single output 360W switching DC Power Supply series in lightweight and compact size, designed to provide reliable and stable DC Power Source at affordable price. Furthermore,

switching technology has the advantage of higher efficiency power conversion and power density compared to the linear power supplies.

### SWITCHING D.C. POWER SUPPLY (Single Output, Output Power : 360W)

	Model	Output Voltage (V)	Output Current (A)	Display Type	Weight(kg)	Page
LED Display	SPS-1230	0 ~ 12V	0 ~ 30A	3 1/2 digit x 2	3.2	D26
	SPS-1820	0 ~ 18V	0 ~ 20A	3 1/2 digit x 2	3.2	
	SPS-3610	0 ~ 36V	0 ~ 10A	3 1/2 digit x 2	3.2	
	SPS-2415	0 ~ 24V	0 ~ 15A	3 1/2 digit x 2	3.2	
	SPS-606	0 ~ 60V	0 ~ 6A	3 1/2 digit x 2	3.2	

### MULTIPLE OUTPUT DUAL RANGE D.C. POWER SUPPLY (Multiple Output, Output Power : 375W)

	Model	Independent	Series	Parallel	Display Type	Weight(kg)	Page
LED Display	SPD-3606	$\begin{bmatrix} 0\sim 30V/0\sim 6A \\ 0\sim 60V/0\sim 3A \end{bmatrix} \times 2$ 0.1~5V/3A	$\begin{bmatrix} 0\sim 60V/0\sim 6A \\ 0\sim 120V/0\sim 3A \end{bmatrix}$	$\begin{bmatrix} 0\sim 30V/0\sim 12A \\ 0\sim 60V/0\sim 6A \end{bmatrix}$	3digit x 4 (3CH)	6	D27

## SWITCHING D.C. POWER SUPPLY



SPS-1230/1820/2415/3610/606



### FEATURES

- \* Dual Measurement Display
- \* 0.01 % High Regulation
- \* Constant Voltage and Constant Current Operation
- \* High Efficiency
- \* High Power Density
- \* Over Voltage Protection
- \* Remote Output ON/OFF Control

The SPS-Series are single output, 360W, switching DC power supply. OVP protects the SPS-Series and their load from unexpected conditions. High regulation is maintained at 0.01%. Remote sensing adds extra level of precision by compensating cable losses between loads. Turning the output On/Off from external device is available through Remote control terminals. The GPS-Series are an ideal solution for power-efficient bench-top or portable applications requiring high regulation.

SPECIFICATIONS					
<b>OUTPUT</b>					
	<b>SPS-1230</b>	<b>SPS-1820</b>	<b>SPS-2415</b>	<b>SPS-3610</b>	<b>SPS-606</b>
<b>Voltage</b>	0 ~ 12V	0 ~ 18V	0 ~ 24V	0 ~ 36V	0 ~ 60V
<b>Current</b>	0 ~ 30A	0 ~ 20A	0 ~ 15A	0 ~ 10A	0 ~ 6A
<b>CONSTANT VOLTAGE OPERATION</b>					
<b>Regulation</b>	Line regulation $\leq 5mV$ Load regulation $\leq 5mV$				
<b>Ripple &amp; Noise</b>	$\leq 5mV_{rms}$ , 100mVp-p 20Hz ~ 20MHz				
<b>Recovery Time</b>	$\leq 500\mu s$ (50% Load change, Minimum load 0.5A)				
<b>Temp. Coefficient</b>	$\leq 100ppm / ^\circ C$				
<b>Output Range</b>	0 to rating voltage continuously adjustable				
<b>CONSTANT CURRENT OPERATION</b>					
<b>Regulation</b>	Line regulation $\leq 3mA$ Load regulation $\leq 3mA$				
<b>Ripple Current</b>	$\leq 3mA_{rms}$ (SPS-606) $\leq 5mA_{rms}$ (SPS-3610) $\leq 10mA_{rms}$ (SPS-2415) $\leq 10mA_{rms}$ (SPS-1820) $\leq 30mA_{rms}$ (SPS-1230)				
<b>Output Range</b>	0 to rating current continuously adjustable (HI/LO range switchable)				
<b>METER</b>					
<b>Type</b>	3 1/2 digit, 0.39" LED display				
<b>Accuracy</b>	$\pm (0.5\% \text{ of rdg} + 2\text{digits})$				
<b>INSULATION</b>					
<b>Chassis and Terminal</b>	20M $\Omega$ or above (DC 500V)				
<b>Chassis and AC Cord</b>	30M $\Omega$ or above (DC 500V)				
<b>POWER SOURCE</b>					
AC 115V/ 230V $\pm 15\%$ , 50/60Hz					
<b>DIMENSIONS &amp; WEIGHT</b>					
128(W) x 151(H) x 295(D) mm, Approx. 3.2kg					

### ORDERING INFORMATION

<b>SPS-1230</b>	360W D.C. Switching Power Supply
<b>SPS-1820</b>	360W D.C. Switching Power Supply
<b>SPS-2415</b>	360W D.C. Switching Power Supply
<b>SPS-3610</b>	360W D.C. Switching Power Supply
<b>SPS-606</b>	360W D.C. Switching Power Supply

#### ACCESSORIES :

User manual x 1 , Power cord x 1  
Test lead GTL-203 x 1

### Rear Panel



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