

Switching DC Power Supply

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

switching technology, it has the advantage of higher efficiency power conversion and power density compared to the same power range of linear power supply.

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	3½ digit x 2	3.2	D24
	SPS-1820	0 ~ 18V	0 ~ 20A	3½ digit x 2	3.2	
	SPS-3610	0 ~ 36V	0 ~ 10A	3½ digit x 2	3.2	
	SPS-2415	0 ~ 24V	0 ~ 15A	3½ digit x 2	3.2	
	SPS-606	0 ~ 60V	0 ~ 6A	3½ digit x 2	3.2	



SPS-1230/1820/2415/3610/606



FEATURES

- * Two Digital Panel Meters
- * 0.01 % High Regulation
- * Constant Voltage and Constant Current Operation
- * High Efficiency
- * High Power Density
- * Over Voltage Protection
- * Remote Control Output ON/OFF Function

Rear Panel



The SPS Series is single output, 360W, switching DC power supply. OVP protects SPS and loads 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 terminal. The GPS Series is an ideal solution for power-efficient bench-top or portable applications requiring high regulation.

SPECIFICATIONS					
OUTPUT					
	SPS-1230	SPS-1820	SPS-2415	SPS-3610	SPS-606
Voltage	0 ~ 12V	0 ~ 18V	0 ~ 24V	0 ~ 36V	0 ~ 60V
Current	0 ~ 30A	0 ~ 20A	0 ~ 15A	0 ~ 10A	0 ~ 6A
CONSTANT VOLTAGE OPERATION					
Regulation	Line regulation $\leq 5\text{mV}$ Load regulation $\leq 5\text{mV}$				
Ripple & Noise	$\leq 5\text{mVrms}$, 100mVp-p 20Hz ~ 20MHz				
Recovery Time	$\leq 500\mu\text{s}$ (50% Load change, Minimum load 0.5A)				
Temp. Coefficient	$\leq 100\text{ppm}/^\circ\text{C}$				
Output Range	0 to rating voltage continuously adjustable				
CONSTANT CURRENT OPERATION					
Regulation	Line regulation $\leq 3\text{mA}$ Load regulation $\leq 3\text{mA}$				
Ripple Current	$\leq 3\text{mA}_{\text{rms}}$ (SPS-606) $\leq 5\text{mA}_{\text{rms}}$ (SPS-3610) $\leq 10\text{mA}_{\text{rms}}$ (SPS-2415) $\leq 10\text{mA}_{\text{rms}}$ (SPS-1820) $\leq 30\text{mA}_{\text{rms}}$ (SPS-1230)				
Output Range	0 to rating current continuously adjustable (HI/LO range switchable)				
METER					
Digital	3 1/2 digits, 0.39" LED display Accuracy $\pm (0.5\% \text{ of rdg} + 2\text{digits})$				
INSULATION					
Chassis and Terminal	20M Ω or above (DC 500V)				
Chassis and AC Cord	30M Ω or above (DC 500V)				
POWER SOURCE					
AC 115V/ 230V $\pm 15\%$, 50/60Hz					
ACCESSORIES					
User manual x 1, Power cord x 1 Test lead GTL-203 x 1					
DIMENSIONS & WEIGHT					
128(W) x 145(H) x 285(D) mm, Approx. 3.2kg					
ORDERING INFORMATION					
SPS-1230	360W D.C. Switching Power Supply				
SPS-1820	360W D.C. Switching Power Supply				
SPS-2415	360W D.C. Switching Power Supply				
SPS-3610	360W D.C. Switching Power Supply				
SPS-606	360W D.C. Switching Power Supply				