

SPS Series

Bonafide

Basic 1.6kW

Programmable DC

Power Supply



FEATURES

- High Power Density, 1U
- Local encoder for bench-top use
- USB, RS-232/RS-485 Lab View/Lab Windows drivers, and standard SCPI Commands for ATE system integration or automated testing
- Closed case calibration
- 0-5 or 0-10Vdc I/P programming & monitoring
- LED display module
- Programmable protection modes
- Remote Shut Down for interlock and redundant system protection
- Master/slave capability

ENVIRONMENTAL

Storage Temp: -40°C to +70°C

Operating Temp: 0°C to +50°C

Humidity: 0 to 80% RH
Non-condensing

SAFETY / EMC

EN60950
CE marked in accordance with the Low Voltage Directive (LVD)

UL approved to UL60950

ELECTRICAL SPECIFICATIONS

INPUT

AC INPUT 85-265VAC
Frequency 45-440Hz (PFC)

OUTPUT

Line Regulation $\pm 0.001\%$ - CV $V_{max} + 2mV$
 $\pm 0.001\%$ CC $I_{max} + 2mA$

Load Regulation $\pm 0.01\%$ - CV $I_{max} + 2mV$
 $\pm 0.01\%$ - CC $I_{max} + 2mA$

Transient Response (1) 1 - 3mS

Stability (2) $\pm 0.01\%$ +10mV

Temp. Coefficient (3) 100ppm / °C (CV mode)
300ppm / °C (CC mode)

Output Isolation Up to $\pm 1500VDC$

Remote Sense $\pm 2VDC$ volt drop / line

Meter Accuracy 0.2% +0.2V (Voltage)
0.2% +0.2A (Current)

NOTES:

1. Load Regulation is specified for 10-90% load change
2. Line Regulation is specified for line voltage variation over the AC input voltage range with constant rated load.
3. Ripple and Noise(PARD) is specified for 10-95% output voltage @ full output current.
4. Time for output voltage to recover within $\pm 0.5\%$ of v full scale following a 12% -60% load current change
5. Programming speed(Tup/Tdn) is specified @ 50% of full current loading
6. Drift is specified over an 8 hour period with constant line, load,& temperature after 30 mins of warm up
7. Temperature coefficient is specified for changes in output °C in ambient temperature @ constant line & load
8. AC Input current will be greater than 15Amps @ AC Voltage Range 100-240VAC @ 50 to 400Hz

Specifications subject to change without notice

Safety Power Group Ltd

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AVAILABLE MODELS

SPSZ-Y-BX09 (Basic Model)

Z: Max Voltage Rating
Y: Max Current Rating
X: O= None
R= Reverse Polarity/Isolation Relay (<30Adc)
S= Solid State Reverse Polarity/Isolation Relay
I= Isolated Analogue Programming (Basic model)

MODEL No.	OUTPUT VOLTAGE	OUTPUT CURRENT
16-100	0 - 16VDC	0 - 100ADC
20-80	0 - 20VDC	0 - 80ADC
26-62	0 - 26VDC	0 - 62ADC
35-46	0 - 35VDC	0 - 46ADC
40-40	0 - 40VDC	0 - 40ADC
60-27	0 - 60VDC	0 - 27ADC
80-20	0 - 80VDC	0 - 20ADC
120-13.3	0 - 120VDC	0 - 13.3ADC
150-11	0 - 150VDC	0 - 11ADC
300-5.5	0 - 300VDC	0 - 5.5ADC
400-4	0 - 400VDC	0 - 4ADC
500-3.2	0 - 500VDC	0 - 3.2ADC
600-2.7	0-600VDC	0-2.7ADC
800-2	0-800VDC	0-2ADC
1000-1.5	0-1000VDC	0-1.5ADC

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