

# SPS Series

## Bonafide

### Premium 1.6kW

### Programmable DC

### Power Supply



## FEATURES

- High Power Density, 1U
- Advanced Digital Platform
- GPIB/Ethernet
- USB and RS232
- Hi-Resolution VFD Display
- VLIST and ILIST auto-sequencing
- Closed case calibration
- In field firmware updates keep the SPS features and functions up-to-date
- Programmable protection modes
- Remote Inhibit /Fault Monitoring
- 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

9, Farnborough Business Centre, Eelmoor Road, Farnborough, Hampshire. GU14 7QN

Tel: +44 (0) 1252 515565 Fax: +44 (0) 1252 546021

e-mail: sales@safety-power.com web: www.safety-power.com

## AVAILABLE MODELS

**SPSZ-Y-KX09** (Premium Model)

**Z:** Max Voltage Rating  
**Y:** Max Current Rating  
**X:** O= None  
**R=** Reverse Polarity/Isolation Relay (<30A<sub>dc</sub>)  
**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

Specifications subject to change without notice

### Safety Power Group Ltd

9, Farnborough Business Centre, Eelmoor Road, Farnborough, Hampshire. GU14 7QN

Tel: +44 (0) 1252 515565 Fax: +44 (0) 1252 546021

e-mail: sales@safety-power.com web: www.safety-power.com