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| Specifications ¹ | SPS8-150 | SPS20-60 | SPS35-35 | SPS40-30 | SPS60-20 | SPS80-15 |
|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Number of Outputs | 1 | 1 | 1 | 1 | 1 | 1 |
| Output Ratings | | | | | | |
| Output Voltage 0-Vdc Max. | 8.00 | 20.00 | 35.00 | 40.00 | 60.00 | 80.00 |
| Output Current 0-Adc Max. | 150.00 | 60.00 | 35.00 | 30.00 | 20.00 | 15.00 |
| Maximum Output Power (W) | 1200.00 | 1200.00 | 1225.00 | 1200.00 | 1200.00 | 1200.00 |
| Programming Accuracy | | | | | | |
| Voltage | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS |
| Current | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS |
| Over-Voltage Protection | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS |
| Programming Resolution² | | | | | | |
| Measurement Resolution² | | | | | | |
| Voltage (mV) | 0.80mV | 2.00mV | 3.50mV | 4.00mV | 6.00mV | 8.00mV |
| Current (mA) | 15.00mA | 6.00mA | 3.50mA | 3.00mA | 2.00mA | 1.50mA |
| OVP (mV) | 2.00mV | 5.00mV | 8.75mV | 10.00mV | 15.00mV | 20.00mV |
| Measurement Accuracy | | | | | | |
| Voltage | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS |
| Current | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS |
| Front Panel Display Accuracy | | | | | | |
| Voltage (4 Digits) | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS |
| Current (4 Digits) | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS |
| Front Panel Resolution² | | | | | | |
| Voltage | 0.80mV | 2.00mV | 3.50mV | 4.00mV | 6.00mV | 8.00mV |
| Current | 15.00mA | 6.00mA | 3.50mA | 3.00mA | 2.00mA | 1.50mA |
| Load Regulation³ | | | | | | |
| Voltage(0.01%*Vmax+ 2 mV)(mV) | 2.80 | 4.00 | 5.50 | 6.00 | 8.00 | 10.00 |
| Current(0.01%*Imax + 2 mA)(mA) | 17.00 | 8.00 | 5.50 | 5.00 | 4.00 | 3.50 |
| Line Regulation⁴ | | | | | | |
| Voltage(0.001%*Vmax+2mV)(mV) | 2.08 | 2.20 | 2.35 | 2.40 | 2.60 | 2.80 |
| Current(0.001%*Imax+ 2mA)(mA) | 3.50 | 2.60 | 2.35 | 2.30 | 2.20 | 2.15 |
| Ripple and Noise (20Hz~20MHz)⁵ | | | | | | |
| Voltage RMS (rms) (mV) | 12 | 10 | 10 | 10 | 10 | 10 |
| Voltage P-P(0 - 20 MHz, p-p)(mV) | 75.0 | 70.0 | 50.0 | 50.0 | 50.0 | 75.0 |
| Transient Response Time (ms)⁶ | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| OVP Adjustment Range | 0.4 ~ 8.8 | 1 ~ 22 | 1.75 ~ 38.5 | 2 ~ 44 | 3 ~ 66 | 4 ~ 88 |
| Program. Speed(Tup/Tdn)(ms)⁷ | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 |
| Temperature Coefficient⁸ | | | | | | |
| CV (PPM/°C) | 100 | 100 | 100 | 100 | 100 | 100 |
| CC (PPM/°C) | 100 | 100 | 100 | 100 | 100 | 100 |
| AC Input⁹ | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V |
| Frequency | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz |
| DC Output Isolation | + 600 V | + 600 V | + 600 V | + 600 V | + 600 V | + 600 V |

*1: All electronic specifications are represented at the full operating temperature range for all models.

*2: The programming and readback resolution is based on 16 bit resolution design.

*3: Load regulation specifications are for 10 - 90% load changes.

*4: Line regulation specifications are for input voltage variation over the ac input voltage range with constant rated load.

(1.2kW Single Channel Switch Mode)

| Specifications ¹ | SPS150-8 | SPS300-4 | SPS400-3 | SPS450-2.5 | SPS600-2 | SPS800-1.5 |
|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Number of Outputs | 1 | 1 | 1 | 1 | 1 | 1 |
| Output Ratings | | | | | | |
| Output Voltage 0-Vdc Max. | 150.00 | 300.00 | 400.00 | 450.00 | 600.00 | 800.00 |
| Output Current 0-Adc Max. | 8.00 | 4.00 | 3.00 | 2.50 | 2.00 | 1.50 |
| Maximum Output Power (W) | 1200.00 | 1200.00 | 1200.00 | 1125.00 | 1200.00 | 1200.00 |
| Programming Accuracy | | | | | | |
| Voltage | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS |
| Current | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS |
| Over-Voltage Protection | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS |
| Programming Resolution ² | | | | | | |
| Measurement Resolution ² | | | | | | |
| Voltage (mV) | 15.00mV | 30.00mV | 40.00mV | 45.00mV | 60.00mV | 80.00mV |
| Current (mA) | 0.80mA | 0.40mA | 0.30mA | 0.25mA | 0.20mA | 0.15mA |
| OVP (mV) | 37.50mV | 75.00mV | 100.00mV | 112.50mV | 150.00mV | 200.00mV |
| Measurement Accuracy | | | | | | |
| Voltage | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS |
| Current | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS |
| Front Panel Display Accuracy | | | | | | |
| Voltage (4 Digits) | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS |
| Current (4 Digits) | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS |
| Front Panel Resolution ² | | | | | | |
| Voltage | 15.00mV | 30.00mV | 40.00mV | 45.00mV | 60.00mV | 80.00mV |
| Current | 0.80mA | 0.40mA | 0.30mA | 0.25mA | 0.20mA | 0.15mA |
| Load Regulation ³ | | | | | | |
| Voltage(0.01%*Vmax+ 2 mV)(mV) | 17.00 | 32.00 | 42.00 | 47.00 | 62.00 | 82.00 |
| Current(0.01%*Imax + 2 mA)(mA) | 2.80 | 2.40 | 2.30 | 2.25 | 2.20 | 2.15 |
| Line Regulation ⁴ | | | | | | |
| Voltage(0.001%*Vmax+2mV)(mV) | 3.50 | 5.00 | 6.00 | 6.50 | 8.00 | 10.00 |
| Current(0.001%*Imax+ 2mA)(mA) | 2.08 | 2.04 | 2.03 | 2.03 | 2.02 | 2.02 |
| Ripple and Noise (20Hz~20MHz) ⁵ | | | | | | |
| Voltage RMS (rms) (mV) | 15 | 25 | 10 | 10 | 10 | 12 |
| Voltage P-P(0 - 20 MHz, p-p)(mV) | 150.0 | 300.0 | 50.0 | 50.0 | 75.0 | 75.0 |
| Transient Response Time (ms) ⁶ | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| OVP Adjustment Range | 7.5 ~ 165 | 15 ~ 330 | 20 ~ 440 | 22.5 ~ 495 | 30 ~ 660 | 40 ~ 880 |
| Program. Speed(Tup/Tdn)(ms) ⁷ | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 |
| Temperature Coefficient ⁸ | | | | | | |
| CV (PPM/°C) | 100 | 100 | 100 | 100 | 100 | 100 |
| CC (PPM/°C) | 100 | 100 | 100 | 100 | 100 | 100 |
| AC Input ⁹ | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V |
| Frequency | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz |
| DC Output Isolation | + 600 V | + 600 V | + 600 V | + 600 V | + 600 V | + 800 V |

*5: Ripple and Noise specifications are for 10 - 100% output voltage and full output current.

*6: Time for output voltage to recover to within +/- 0.5% of V_{FULL-SCALE} following a 10% ~ 60% load current change.

*7: Programming speed specifications are for 50% of full current loading.

*8: Temperature coefficient specifies output change per °C in ambient temperature rise following 30 minute warm up with constant line and load.

*9: AC Input is fixed and factory configured to either 103.5 ~ 126.5Vac or 207 ~ 253Vac @ 50/60Hz.

| Specifications ¹ | SPS8-150 | SPS20-60 | SPS35-35 | SPS40-30 | SPS60-20 | SPS80-15 |
|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Number of Outputs | 1 | 1 | 1 | 1 | 1 | 1 |
| Output Ratings | | | | | | |
| Output Voltage 0-Vdc Max. | 8.00 | 20.00 | 35.00 | 40.00 | 60.00 | 80.00 |
| Output Current 0-Adc Max. | 150.00 | 60.00 | 35.00 | 30.00 | 20.00 | 15.00 |
| Maximum Output Power (W) | 1200.00 | 1200.00 | 1225.00 | 1200.00 | 1200.00 | 1200.00 |
| Programming Accuracy | | | | | | |
| Voltage | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS |
| Current | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS |
| Over-Voltage Protection | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS |
| Programming Resolution ² | | | | | | |
| Measurement Resolution ² | | | | | | |
| Voltage (mV) | 0.80mV | 2.00mV | 3.50mV | 4.00mV | 6.00mV | 8.00mV |
| Current (mA) | 15.00mA | 6.00mA | 3.50mA | 3.00mA | 2.00mA | 1.50mA |
| OVP (mV) | 2.00mV | 5.00mV | 8.75mV | 10.00mV | 15.00mV | 20.00mV |
| Measurement Accuracy | | | | | | |
| Voltage | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS |
| Current | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS |
| Front Panel Display Accuracy | | | | | | |
| Voltage (4 Digits) | 0.1% of Rdg + 10mV | 0.1% of Rdg + 20mV | 0.1% of Rdg + 40mV | 0.1% of Rdg + 40mV | 0.1% of Rdg + 60mV | 0.1% of Rdg + 80mV |
| Current (4 Digits) | 0.1% of Rdg+300mA | 0.1% of Rdg+200mA | 0.1% of Rdg+70mA | 0.1% of Rdg+60mA | 0.1% of Rdg+40mA | 0.1% of Rdg+30mA |
| Front Panel Resolution ² | | | | | | |
| Voltage | 1mV | 10mV | 10mV | 10mV | 10mV | 10mV |
| Current | 100mA | 10mA | 10mA | 10mA | 10mA | 10mA |
| Load Regulation ³ | | | | | | |
| Voltage(0.01%*Vmax+ 2 mV)(mV) | 2.80 | 4.00 | 5.50 | 6.00 | 8.00 | 10.00 |
| Current(0.01%*Imax + 2 mA)(mA) | 17.00 | 8.00 | 5.50 | 5.00 | 4.00 | 3.50 |
| Line Regulation ⁴ | | | | | | |
| Voltage(0.001%*Vmax+2mV)(mV) | 2.08 | 2.20 | 2.35 | 2.40 | 2.60 | 2.80 |
| Current(0.001%*Imax+ 2mA)(mA) | 3.50 | 2.60 | 2.35 | 2.30 | 2.20 | 2.15 |
| Ripple and Noise (20Hz-20MHz) ⁵ | | | | | | |
| Voltage RMS (rms) (mV) | 12 | 10 | 10 | 10 | 10 | 10 |
| Voltage P-P(0 - 20 MHz, p-p)(mV) | 75.0 | 70.0 | 50.0 | 50.0 | 50.0 | 75.0 |
| Transient Response Time (ms) ⁶ | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| OVP Adjustment Range | 0.4 ~ 8.8 | 1 ~ 22 | 1.75 ~ 38.5 | 2 ~ 44 | 3 ~ 66 | 4 ~ 88 |
| Program. Speed(Tup/Tdn)(ms) ⁷ | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 |
| Temperature Coefficient ⁸ | | | | | | |
| CV (PPM/°C) | 100 | 100 | 100 | 100 | 100 | 100 |
| CC (PPM/°C) | 100 | 100 | 100 | 100 | 100 | 100 |
| AC Input ⁹ | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V |
| Frequency | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz |
| DC Output Isolation | + 600 V | + 600 V | + 600 V | + 600 V | + 600 V | + 600 V |

*1: All electronic specifications are represented at the full operating temperature range for all models.

*2: The programming and readback resolution is based on 16 bit resolution design.

*3: Load regulation specifications are for 10 - 90% load changes.

*4: Line regulation specifications are for input voltage variation over the ac input voltage range with constant rated load.

| Specifications ¹ | SPS150-8 | SPS300-4 | SPS400-3 | SPS450-2.5 | SPS600-2 | SPS800-1.5 |
|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Number of Outputs | 1 | 1 | 1 | 1 | 1 | 1 |
| Output Ratings | | | | | | |
| Output Voltage 0-Vdc Max. | 150.00 | 300.00 | 400.00 | 450.00 | 600.00 | 800.00 |
| Output Current 0-Adc Max. | 8.00 | 4.00 | 3.00 | 2.50 | 2.00 | 1.50 |
| Maximum Output Power (W) | 1200.00 | 1200.00 | 1200.00 | 1125.00 | 1200.00 | 1200.00 |
| Programming Accuracy | | | | | | |
| Voltage | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS |
| Current | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS | 0.05% of Setting +0.05% of FS |
| Over-Voltage Protection | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS | 0.2% of Vout +0.3% of FS |
| Programming Resolution ² | | | | | | |
| Measurement Resolution ² | | | | | | |
| Voltage (mV) | 15.00mV | 30.00mV | 40.00mV | 45.00mV | 60.00mV | 80.00mV |
| Current (mA) | 0.80mA | 0.40mA | 0.30mA | 0.25mA | 0.20mA | 0.15mA |
| OVP (mV) | 37.50mV | 75.00mV | 100.00mV | 112.50mV | 150.00mV | 200.00mV |
| Measurement Accuracy | | | | | | |
| Voltage | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS | 0.1% of Rdg +0.1% of FS |
| Current | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS | 0.1% of Rdg +0.2% of FS |
| Front Panel Display Accuracy | | | | | | |
| Voltage (4 Digits) | 0.1% of Rdg + 200mV | 0.1% of Rdg + 300mV | 0.1% of Rdg + 400mV | 0.1% of Rdg + 500mV | 0.1% of Rdg + 600mV | 0.1% of Rdg + 800mV |
| Current (4 Digits) | 0.1% of Rdg+20mA | 0.1% of Rdg+8mA | 0.1% of Rdg+6mA | 0.1% of Rdg+5mA | 0.1% of Rdg+4mA | 0.1% of Rdg+3mA |
| Front Panel Resolution ² | | | | | | |
| Voltage | 100mV | 100mV | 100mV | 100mV | 100mV | 100mV |
| Current | 1mA | 1mA | 1mA | 1mA | 1mA | 1mA |
| Load Regulation ³ | | | | | | |
| Voltage(0.01%*Vmax+ 2 mV)(mV) | 17.00 | 32.00 | 42.00 | 47.00 | 62.00 | 82.00 |
| Current(0.01%*Imax + 2 mA)(mA) | 2.80 | 2.40 | 2.30 | 2.25 | 2.20 | 2.15 |
| Line Regulation ⁴ | | | | | | |
| Voltage(0.001%*Vmax+2mV)(mV) | 3.50 | 5.00 | 6.00 | 6.50 | 8.00 | 10.00 |
| Current(0.001%*Imax+ 2mA)(mA) | 2.08 | 2.04 | 2.03 | 2.03 | 2.02 | 2.02 |
| Ripple and Noise (20Hz~20MHz) ⁵ | | | | | | |
| Voltage RMS (rms) (mV) | 15 | 25 | 10 | 10 | 10 | 12 |
| Voltage P-P(0 - 20 MHz, p-p)(mV) | 150.0 | 300.0 | 50.0 | 50.0 | 75.0 | 75.0 |
| Transient Response Time (ms) ⁶ | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| OVP Adjustment Range | 7.5 ~ 165 | 15 ~ 330 | 20 ~ 440 | 22.5 ~ 495 | 30 ~ 660 | 40 ~ 880 |
| Program. Speed(Tup/Tdn)(ms) ⁷ | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 |
| Temperature Coefficient ⁸ | | | | | | |
| CV (PPM/°C) | 100 | 100 | 100 | 100 | 100 | 100 |
| CC (PPM/°C) | 100 | 100 | 100 | 100 | 100 | 100 |
| AC Input ⁹ | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V | 103.5 ~ 126.5V or 207 ~ 253V |
| Frequency | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz |
| DC Output Isolation | + 600 V | + 600 V | + 600 V | + 600 V | + 600 V | + 800 V |

⁵: Ripple and Noise specifications are for 10 - 100% output voltage and full output current.

⁶: Time for output voltage to recover to within +/- 0.5% of V_{FULL-SCALE} following a 10% ~ 60% load current change.

⁷: Programming speed specifications are for 50% of full current loading.

⁸: Temperature coefficient specifies output change per °C in ambient temperature rise following 30 minute warm up with constant line and load.

⁹: AC Input is fixed and factory configured to either 120Vac: 103.5 ~ 126.5Vac or 208Vac: 187 ~ 229Vac or 230Vac: 207 ~ 253Vac @ 50/60Hz.

| Specifications ¹ | SPS8-150 | SPS20-60 | SPS35-35 | SPS40-30 | SPS60-20 | SPS80-15 | SPS150-8 | SPS300-4 | SPS400-3 | SPS450-2.5 | SPS600-2 | SPS800-1.5 |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Number of Outputs | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Output Ratings | | | | | | | | | | | | |
| Output Voltage 0-Vdc Max. ² | 8.0 | 20.0 | 35.0 | 40.0 | 60.0 | 80.0 | 150.0 | 300.0 | 400.0 | 450.0 | 600.0 | 800.0 |
| Output Current 0-Adc Max. ³ | 150.0 | 60.0 | 35.0 | 30.0 | 20.0 | 15.0 | 8.0 | 4.0 | 3.0 | 2.5 | 2.0 | 1.5 |
| Maximum Output Power (W) | 1200.0 | 1200.0 | 1225.0 | 1200.0 | 1200.0 | 1200.0 | 1200.0 | 1200.0 | 1200.0 | 1125.0 | 1200.0 | 1200.0 |
| Remote Programming Accuracy⁴ | | | | | | | | | | | | |
| Voltage(0.2% Vmax+10 mV)(mV) | 26 | 50 | 80 | 90 | 130 | 170 | 310 | 610 | 810 | 910 | 1210 | 1610 |
| Current(0.3% Imax + 10 mA)(mA) | 460 | 190 | 115 | 100 | 70 | 55 | 34 | 22 | 19 | 17.5 | 16 | 14.5 |
| OVP (5% + 100 mV) (V) | 0.5 | 1.1 | 1.85 | 2.1 | 3.1 | 4.1 | 7.6 | 15.1 | 20.1 | 22.6 | 30.1 | 40.1 |
| Remote Programming Resolution⁵ | | | | | | | | | | | | |
| Voltage (1.1 * Vmax / 65535) (mV) | 0.13 | 0.34 | 0.59 | 0.67 | 1.01 | 1.34 | 2.52 | 5.04 | 6.71 | 7.55 | 10.07 | 13.43 |
| Current (1.1 * Imax / 65535) (mA) | 2.52 | 1.01 | 0.59 | 0.50 | 0.34 | 0.25 | 0.13 | 0.07 | 0.05 | 0.04 | 0.03 | 0.03 |
| OVP (1.1 * Vmax / 65535) (mV) | 0.13 | 0.34 | 0.59 | 0.67 | 1.01 | 1.34 | 2.52 | 5.04 | 6.71 | 7.55 | 10.07 | 13.43 |
| Remote Readback Accuracy⁴ | | | | | | | | | | | | |
| Voltage(0.2%*Vmax+20 mV)(mV) | 36 | 60 | 90 | 100 | 140 | 180 | 320 | 620 | 820 | 920 | 1220 | 1620 |
| Current(0.3%*Imax + 20 mA)(mA) | 470 | 200 | 125 | 110 | 80 | 65 | 44 | 32 | 29 | 27.5 | 26 | 24.5 |
| Remote Readback Resolution⁵ | | | | | | | | | | | | |
| Voltage (1.1 * Vmax / 65535) (mV) | 0.13 | 0.34 | 0.59 | 0.67 | 1.01 | 1.34 | 2.52 | 5.04 | 6.71 | 7.55 | 10.07 | 13.43 |
| Current (1.1 * Imax / 65535) (mA) | 2.52 | 1.01 | 0.59 | 0.50 | 0.34 | 0.25 | 0.13 | 0.07 | 0.05 | 0.04 | 0.03 | 0.03 |
| Local Meter Accuracy | | | | | | | | | | | | |
| Voltage(0.5%*Vmax+1 count)(mV) | 48 | 120 | 210 | 240 | 360 | 480 | 900 | 1800 | 2400 | 2700 | 3600 | 4800 |
| Current(0.5%*Imax+1 count)(mA) | 900 | 360 | 210 | 180 | 120 | 90 | 48 | 24 | 18 | 15 | 12 | 9 |
| Load Regulation⁶ | | | | | | | | | | | | |
| Voltage(0.02%*Vmax+5 mV)(mV) | 6.6 | 9 | 12 | 13 | 17 | 21 | 35 | 65 | 85 | 95 | 125 | 165 |
| Current(0.03%*Imax + 5 mA)(mA) | 50 | 23 | 15.5 | 14 | 11 | 9.5 | 7.4 | 6.2 | 5.9 | 5.75 | 5.6 | 5.45 |
| Line Regulation⁷ | | | | | | | | | | | | |
| Voltage(0.01%*Vmax+2 mV)(mV) | 2.8 | 4 | 5.5 | 6 | 8 | 10 | 17 | 32 | 42 | 47 | 62 | 82 |
| Current(0.01%*Imax + 2 mA)(mA) | 17 | 8 | 5.5 | 5 | 4 | 3.5 | 2.8 | 2.4 | 2.3 | 2.25 | 2.2 | 2.15 |
| Ripple and Noise (20Hz~20MHz)⁸ | | | | | | | | | | | | |
| Voltage RMS (rms) (mV) | 12 | 10 | 10 | 10 | 10 | 10 | 15.0 | 25.0 | 30 | 40 | 40 | 40 |
| Voltage P-P(0 - 20 MHz, p-p)(mV) | 75.0 | 70.0 | 50.0 | 50 | 50 | 75 | 150.0 | 300.0 | 350 | 350 | 400 | 400 |
| Transient Response Time (ms)⁹ | 3.0 | 3.0 | 3.0 | 3 | 3 | 3 | 3.0 | 5.1 | 3 | 3 | 3 | 3 |
| OVP Adjustment Range 5% - 110% of Vmax (V) | 0.4 - 8.8 | 1 - 22 | 1.8 - 38.5 | 2 - 44 | 3 - 66 | 4 - 88 | 7.5 - 165 | 15 - 330 | 20 - 440 | 22 - 495 | 30 - 660 | 40 - 880 |
| Programming Speed(Tup/Tdn)(mS)¹⁰ | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 |
| Drift (8 Hours)¹¹ | | | | | | | | | | | | |
| CV Mode (0.5%*Vmax) (mV) | 40 | 100 | 175 | 200 | 300 | 400 | 750 | 1500 | 2000 | 2250 | 3000 | 4000 |
| CC Mode (0.5%*Imax) (mA) | 750 | 300 | 175 | 150 | 100 | 75 | 40 | 20 | 15 | 12.5 | 10 | 7.5 |
| Temp. Coefficient¹² | | | | | | | | | | | | |
| CV Mode(0.02%*Vmax/C)(mV/C) | 1.6 | 4 | 7 | 8 | 12 | 16 | 30 | 60 | 80 | 90 | 120 | 160 |
| CC Mode(0.03%*Imax/C)(mA/C) | 45 | 18 | 10.5 | 9 | 6 | 4.5 | 2.4 | 1.2 | 0.9 | 0.75 | 0.6 | 0.45 |
| AC Input (Factory Configured AC Range) | 103.5~126.5V or 207~253V | 103.5~126.5V or 207~253V | 103.5~126.5V or 207~253V | 103.5~126.5V or 207~253V | 103.5~126.5V or 207~253V | 103.5~126.5V or 207~253V | 103.5~126.5V or 207~253V | 103.5~126.5V or 207~253V | 103.5~126.5V or 207~253V | 103.5~126.5V or 207~253V | 103.5~126.5V or 207~253V | 103.5~126.5V or 207~253V |
| Frequency | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz |
| DC Output Isolation | ± 600 V | ± 600 V | ± 600 V | ± 600 V | ± 600 V | ± 600 V | ± 600 V | ± 600 V | ± 600 V | ± 600 V | ± 600 V | ± 800 V |

*1: All electronic specifications are represented at the full operating temperature range for all models.

*2: Minimum voltage is guaranteed to maximum 0.15% of the rated output voltage.

*3: Minimum current is guaranteed to maximum 0.5% of the rated output current.

*4: The remote programming/readback accuracy specifications are guaranteed within 0.2% of max rated voltage and 0.3% of max rated current plus offset.

*5: The remote programming and readback resolutions are based on 16 bit resolution.

*6: Load regulation specifications are for 10 - 90% load changes.

*7: Line regulation specifications are for input voltage variation over the ac input voltage range with constant rated load.

*8: Ripple and Noise specifications are for 10 - 100% output voltage and full output current.

*9: Time for output voltage to recover to within +/- 0.5% of V_{FULL-SCALE} following a 10% ~ 60% load current change.

*10: Programming speed specifications are for 50% of full current loading.

*11: Drift specifications are maximum drift over 8 hours with constant line, load, and temperature after 30 minutes of warm-up.

*12: Temperature coefficient specifications are for changes in output per °C change in ambient temperature with constant line and load.

| Specifications ¹ | SPS12-125 | SPS20-75 | SPS60-25 | SPS150-10 | SPS600-2.5 |
|---|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Number of Outputs | 1 | 1 | 1 | 1 | 1 |
| Output Ratings | | | | | |
| Output Voltage 0-Vdc Max. | 12.0 | 20.0 | 60.0 | 150.0 | 600.0 |
| Output Voltage 0-Adc Max. | 125.0 | 75.0 | 25.0 | 10.0 | 2.5 |
| Maximum Output Power (W) | 1500.0 | 1500.0 | 1500.0 | 1500.0 | 1500.0 |
| Programming Accuracy | | | | | |
| Voltage | 0.05% of Setting + 0.05% of FS | 0.05% of Setting + 0.05% of FS | 0.05% of Setting + 0.05% of FS | 0.05% of Setting + 0.05% of FS | 0.05% of Setting + 0.05% of FS |
| Current | 0.05% of Setting + 0.05% of FS | 0.05% of Setting + 0.05% of FS | 0.05% of Setting + 0.05% of FS | 0.05% of Setting + 0.05% of FS | 0.05% of Setting + 0.05% of FS |
| Over-Voltage Protection | 0.2% of Vout + 0.3% of FS | 0.2% of Vout + 0.3% of FS | 0.2% of Vout + 0.3% of FS | 0.2% of Vout + 0.3% of FS | 0.2% of Vout + 0.3% of FS |
| Programming Resolution² | | | | | |
| Measurement Resolution² | | | | | |
| Voltage (mV) | 1.20mV | 2.00mV | 6.00mV | 15.00mV | 60.00mV |
| Current (mA) | 12.50mA | 7.50mA | 2.50mA | 1.00mA | 0.25mA |
| OVP (mV) | 3.00mV | 5.00mV | 15.00mV | 37.50mV | 150.00mV |
| Measurement Accuracy | | | | | |
| Voltage | 0.1% of Rdg + 0.1% of FS | 0.1% of Rdg + 0.1% of FS | 0.1% of Rdg + 0.1% of FS | 0.1% of Rdg + 0.1% of FS | 0.1% of Rdg + 0.1% of FS |
| Current | 0.1% of Rdg + 0.2% of FS | 0.1% of Rdg + 0.2% of FS | 0.1% of Rdg + 0.2% of FS | 0.1% of Rdg + 0.2% of FS | 0.1% of Rdg + 0.2% of FS |
| Front Panel Display Accuracy | | | | | |
| Voltage | 4 Digits / 0.1% of Rdg + 20mV | 4 Digits / 0.1% of Rdg + 20mV | 4 Digits / 0.1% of Rdg + 60mV | 4 Digits / 0.1% of Rdg + 200mV | 4 Digits / 0.1% of Rdg + 600mV |
| Current | 4 Digits / 0.1% of Rdg + 300mA | 4 Digits / 0.1% of Rdg + 150mA | 4 Digits / 0.1% of Rdg + 50mA | 4 Digits / 0.1% of Rdg + 20mA | 4 Digits / 0.1% of Rdg + 5mA |
| Front Panel Resolution | | | | | |
| Voltage | 10mV | 10mV | 10mV | 100mV | 100mV |
| Current | 100mA | 10mA | 10mA | 10mA | 10mA |
| Load Regulation³ | | | | | |
| Voltage (0.01%*Vmax + 2 mV) (mV) | 3.2 | 4 | 8 | 17 | 62 |
| Current (0.01%*Imax + 2 mA) (mA) | 14.5 | 9.5 | 4.5 | 3 | 2.25 |
| Line Regulation⁴ | | | | | |
| Voltage (0.001%*Vmax + 2 mV) (mV) | 2.12 | 2.2 | 2.6 | 3.5 | 8 |
| Current (0.001%*Imax + 2 mA) (mA) | 3.25 | 2.75 | 2.25 | 2.1 | 2.025 |
| Ripple and Noise (20Hz~20MHz)⁵ | | | | | |
| Voltage RMS (rms) (mV) | 8 | 8 | 8 | 10 | 30 |
| Voltage P-P (0 - 20 MHz, p-p) (mV) | 50.0 | 50.0 | 50.0 | 100.0 | 250.0 |
| Transient Response Time (ms)⁶ | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| OVP Adjustment Range | 0.6 ~ 13.2 | 1 ~ 22 | 3 ~ 66 | 7.5 ~ 165 | 30 ~ 660 |
| Programming Speed (Tup/Tdn) (ms)⁷ | 100 / 100 | 100 / 100 | 100 / 100 | 170 / 170 | 170 / 170 |
| Temp. Coefficient⁸ | | | | | |
| CV (PPM/°C) | 100 | 100 | 100 | 100 | 100 |
| CC (PPM/°C) | 100 | 100 | 100 | 100 | 100 |
| AC Input⁹ | 187 ~ 229Vac or 207 ~ 253Vac | 187 ~ 229Vac or 207 ~ 253Vac | 187 ~ 229Vac or 207 ~ 253Vac | 187 ~ 229Vac or 207 ~ 253Vac | 187 ~ 229Vac or 207 ~ 253Vac |
| Frequency | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz | 50 / 60 Hz |
| DC Output Isolation | + 600 V | + 600 V | + 600 V | + 600 V | + 600 V |

*1: All electronic specifications are represented at the full operating temperature range for all models and subject to change without notice.

*2: The programming and measurement resolution is based on 16 bit resolution design

*3: Load regulation specifications are for 10 - 90% load changes.

*4: Line regulation specifications are for input voltage variation over the ac input voltage range with constant rated load

*5: Ripple and Noise specifications are for 10 - 100% output voltage and full output current.

*6: Time for output voltage to recover to within +/- 0.5% of $V_{FULL-SCALE}$ following a 10% ~ 60% load current change.

*7: Programming speed specifications are for 50% of full current loading.

*8: Temperature coefficient specifies output change per °C in ambient temperature rise following 30 minute warm up with constant line and load.

*9: AC Input is fixed and factory configured to either 208Vac: 187.5 ~ 229Vac or 240Vac: 207 ~ 253Vac @ 50/60Hz.

for SPS1.2kW /1.5kW SWITCH MODE POWER SUPPLIES

Selector Guide for SPS 1.2kW Models (K-Panel Version)

SPS XXX-XXX-KOEX

- AC Input: **0** = 120Vac
1 = 240Vac
- Computer Interfaces: **E** = Ethernet, USB, GPIB, and RS232
- Output Isolation/Polarity Reversal Relays: **0** = None (Not available on these models)
- Front Panel Version: **K** = Keypad and Encoder Knob
- Maximum Current**
- Maximum Voltage**



FRONT VIEW

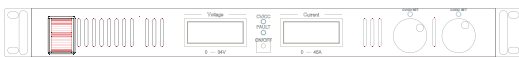


REAR VIEW

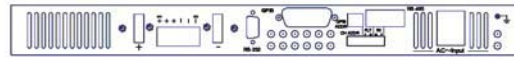
Selector Guide for SPS 1.2kW /1.5kW Models (V-Panel Version)

SPS XXX-XXX-V0XX

- AC Input: **0** = 120Vac (not available on 1.5kW models)
1 = 240Vac
8 = 208Vac
- Computer Interfaces: **2** = GPIB and RS-232
E = Ethernet, USB, GPIB and RS-232
- Output Isolation/Polarity Reversal Relays: **0** = None (Not available for these models)
- Front Panel Version: **V** = Vented Panel with Voltage/Current Encoder Knobs
- Maximum Current Rating**
- Maximum Voltage Rating**



FRONT VIEW



REAR VIEW

Selector Guide for SPS 1.2kW Models (0-Panel Version)

SPS XXX-XXX-0XXX

- AC Input: **0** = 120Vac
1 = 240Vac
- Computer Interfaces: **0** = None
2 = GPIB, RS-232, and RS-485
- Output Isolation/Polarity Reversal Relays: **0** = None
1 = Included
- Front Panel Version: **0** = Voltage/Current Control Potentiometer
- Maximum Current Rating**
- Maximum Voltage Rating**



FRONT VIEW



REAR VIEW



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