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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 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 +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	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 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.*

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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.*

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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 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.*

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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.*

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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 Accuracy[4]												
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 Resolution[5]												
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 Accuracy[4]												
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 Resolution[5]												
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 Regulation[6]												
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 Regulation[7]												
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. Coefficient[12]												
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 $V_{FULL\text{-}SCALE}$ 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.*

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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 Resolution[2] **Measurement Resolution[2]**					
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 Regulation[3]					
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 Regulation[4]					
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. Coefficient[8]					
CV (PPM/°C)	100	100	100	100	100
CC (PPM/°C)	100	100	100	100	100
AC Input[9]	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.*

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

SPS XXX-XXX-K0EX

- 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

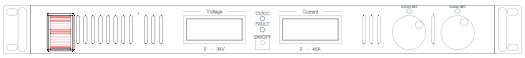


REAR VIEW

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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