

SVL Specifications <120W

| Description | Catalog Number | | |
|---|---|------------------------------------|--|
| | SVL 4-12-100 | SVL 2-24-100 | SVL 4-24-100 |
| Input | | | |
| Input Voltage Range | 85-264 Vac | | |
| – AC Range | 100-240 Vac | | |
| – DC Range ¹ | 120-375 Vdc | | |
| – Frequency | 50/60 Hz | | |
| Nominal Current | 1.0 A @ 115 Vac 0.6 A @ 230 Vac | 1.0 A @ 115 Vac 0.6 A @ 230 Vac | 1.2 A @ 115 Vac 0.6 A @ 230 Vac |
| – Inrush Current max. | 35 A @ 115 Vac 60 A @ 230 Vac | | |
| Efficiency | 88% typ | | 89% typ |
| Leakage Current | <1 mA @ 240 Vac | | |
| Output | | | |
| Nominal Voltage | 12 V | 24 V | |
| – Tolerance | +/-2% | | |
| Voltage Adjustable Range | 12-15 V | 24-28 V | |
| – Ripple (25 °C) | <75 mVp-p | | |
| PARD (25 °C) | <75 mVp-p | | |
| Nominal Current | 4 A | 2.1 A | 4 A |
| Max. Power | 48 W | 50 W | 96 W |
| Holdup Time at full load (25 °C) | 20 ms typ. @ 115 Vac 90 ms typ. @ 230 Vac | | 25 ms typ. @ 115 Vac 50 ms typ. @ 230 Vac |
| Rise Time at full load (25 °C) | <100 ms | | |
| Start Up at full load (25 °C) | <3000 ms @ 115 Vac, <1500 ms @ 230 Vac | | |
| Regulation | <0.5% Line and <1% Load | | |
| Environmental Data | | | |
| Operating Temperature | -20 °C to +70 °C | | |
| Relative Humidity | 5 to 95% RH Non-condensing | | |
| Storage temp | -40 °C to +85 °C | | |
| Power De-rating² | >55 °C de-rate power by 3.33% / °C <-10 °C de-rate power by 2% / °C de-rate to 80% load for operation at -20°C | | |
| Shock | IEC60068-2-27: half sine wave 10 G, single axis for a duration of 11 ms operational and 50 G three axes for duration of 11 ms each non-operational | | |
| Vibration | IEC60068-2-6: 10 Hz to 500 Hz at 2 g, 0.35mm displacement, three axes for 60 min each operational and 5 Hz to 500 Hz at 2.09 grms, three axes for 20 min each non-operational | | |
| Protections | | | |
| Overvoltage Protection | 16-18.7 V, Latching | 30-34.8 V, Latching | |
| Overload Protection | Current foldforward and then hiccup | | |
| Over Temperature Protection | No Component Damage, Latch Mode | | |
| Short Circuit | Hiccup Mode, Non-Latching (Auto-Recovery when the fault is removed) | | |
| Power Factor Correction | Meets EN61000-3-2 Class A | | |
| Reliability | | | |
| MTBF | >350 khrs (115 Vac/230 Vac @ 25 °C) as per Telcordia SR-332 issue 3 Jan 2011. | | |
| EMC | | | |
| Galvanic Isolation | I/P to O/P: 3 KVac; I/P to GND: 1.5 KVac; O/P to GND: 0.5 KVac | | |
| Emissions | EN55022 (CISPR22) Class B, EN55011 Class B, EN61000-6-3, EN61000-6-4, EN61000-3-3, EN61204-3, EN61000-3-2 Class A | | |
| Immunity | EN55024, EN61000-6-1, EN61000-6-2 (EN61000-4-2, 3, 4, 5, 6, 8, 11, 12) Level 3, Performance Criteria A | | |
| General | | | |
| H x W x D in (mm) | 2.95 x 1.18 x 3.52 (75.0 x 30.0 x 89.5) | | 2.95 x 1.77 x 3.93 (75.0 x 45.0 x 100.0) |
| Unit Weight | 0.397 lb (180 g) | | 0.716 lb (325 g) |
| LED Signals | GREEN light = DC OK , OCP = blinking | | |
| DC OK Relay Contact | No | | |
| Warranty | 2 year | | |

1. DC input range is not listed in safety file it is only to confirm product functional performance.
2. >120 Watts models measured at 230 VAC input and 25 °C ambient temperature. See manual for further details.

SVL Specifications >120W

| Description | Catalog Number | | | |
|---|---|--------------|--|--|
| | SVL 2-48-100 | SVL 5-24-100 | SVL 10-24-100 | SVL 20-24-100 |
| Input | | | | |
| Input Voltage Range | 85-264 Vac | | | |
| – AC Range | 100-240 Vac | | | |
| – DC Range ¹ | 120-375 Vdc | | | |
| – Frequency | 50/60 Hz | | | |
| Nominal Current | 2.20 A @ 115 Vac 1.20 A @ 230 Vac | | 2.8 A @ 115 Vac 1.4 A @ 230 Vac | 5.4 A @ 115 Vac 2.7 A @ 230 Vac |
| – Inrush Current max. | 20 A typ.@ 115 Vac 40 A typ.@ 230 Vac | | | 40A typ.@ 115 Vac 80A typ.@ 230 Vac |
| Efficiency | 88% typ | | | |
| Leakage Current | <1 mA @ 240 Vac | | | |
| Output | | | | |
| Nominal Voltage | 48V | | 24V | |
| – Tolerance | +/-2% | | | |
| Voltage Adjustable Range | 44-56 V | | 22-28 V | |
| – Ripple (25 °C) | <120 mVp-p | | <100 mVp-p | |
| PARD (25 °C) | <150 mVp-p | | <120 mVp-p | |
| Nominal Current | 2.5 A | 5 A | 10 A | 20 A |
| Max. Power | 120 W | | 240 W | 480 W |
| Holdup Time at full load (25 °C) | 10 ms typ.@ 115 Vac 16 ms typ @ 230 Vac | | | |
| Rise Time at full load (25 °C) | <100 ms | | | |
| Start Up at full load (25 °C) | <1000 ms @ 115 Vac & 230 Vac | | | |
| Regulation | <0.5% Line and <1% Load | | | |
| Environmental Data | | | | |
| Operating Temperature | -20 °C to +70 °C | | | |
| Relative Humidity | 5 to 95% RH Non-condensing | | | |
| Storage temp | -40 °C to +85 °C | | | |
| Power De-rating² | >50 °C de-rate power by 2.5% / °C <-10 °C de-rate power by 2% / °C <100 Vac de-rate power by 1% / Vac | | | |
| Shock | IEC60068-2-27: half sine wave 10 G, single axis for a duration of 11 ms operational and 50 G three axes for duration of 11 ms each non-operational | | | |
| Vibration | IEC60068-2-6: sine wave; 10 Hz to 500 Hz at 2 g, 0.35 mm displacement, three axes for 60 min each operational and 5 Hz to 500 Hz at 2.09 grms, three axes for 20 min each non-operational | | | |
| Protections | | | | |
| Overvoltage Protection | 56-67.2 V, Latching | | 28.8-35.2 V, Latching | |
| Overload Protection | 105-150% of rated load; constant current at >20 V output and hiccup at <20 V output. SVL 2-48-100: constant current at >40 V output and hiccup at <40 V output. | | | |
| Over Temperature Protection | No Component Damage, Latch Mode | | | |
| Short Circuit | Hiccup Mode, Non-Latching (Auto-Recovery when the fault is removed) | | | |
| Power Factor Correction | Meets EN61000-3-2 Class A | | | |
| Reliability | | | | |
| MTBF | >700 khrs (115 Vac & 230 Vac @ 25 °C) as per Telcordia SR-332 issue 3 Jan 2011. | | | |
| EMC | | | | |
| Galvanic Isolation | I/P to O/P: 3 kVac; I/P to GND: 2 kVac; O/P to GND: 0.5 kVac | | | |
| Emissions | EN55022 (CISPR22) Class B, EN55011 Class B, EN61000-6-3, EN61000-6-4, EN61000-3-3, EN61204-3, EN61000-3-2 Class A | | | |
| Immunity | EN55024, EN61000-6-1, EN61000-6-2 (EN61000-4-2, 3, 4, 5, 6, 8, 11, 12) Level 3, Performance Criteria A, SEMI F47 @ 200 Vac | | | |
| General | | | | |
| H x W x D in (mm) | 4.84 x 1.57 x 4.63 (123.6 x 40.0 x 117.6) | | 4.87 x 2.36 x 4.63 (123.6 x 60.0 x 117.6) | 4.87 x 3.37 x 5.06 (123.6 x 85.5 x 128.5) |
| Unit Weight | 540 g (1.19 lb) | | 660 g (1.45 lb) | 1150 g (2.53 lb) |
| LED Signals | GREEN light = DC OK , OCP = blinking | | | |
| DC OK Relay Contact | Yes | | | |
| Warranty | 2 year | | | |

1. DC input range is not listed in safety file it is only to confirm product functional performance.

2. >120 Watts models measured at 230V AC input and 25°C ambient temperature. See manual for further details.