

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 Range¹	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 Range¹	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.