

SVL Essential DIN Rail Series

SVL Series power supplies are perfect for high volume, controlled environment applications where essential features are the only requirement. When space inside an enclosure is at a premium, their small footprint makes these power supplies an excellent alternative to embedded open frame switchers. The DIN rail mounting capability provides quicker and easier installation while allowing for design flexibility. These power supplies range from 15 to 480 Watts in 5, 12, 24 and 48 Volt combinations.

Applications

- Test and Measure Equipment
- Scanners
- Instrumentation
- Printers Peripheral
- ATM Machines
- Semiconductor Fabrication Equipment
- Vending Machines

Features

- Universal Input
- Protection
 - Short Circuit
 - Over Voltage
 - Overload
 - Over Temperature
- Convection cooling
- DC OK LED
- DC OK Relay for >120 Watts models
- Two year warranty





Certifications and Compliances

All Models

- culsted, Ind. Control Equipment, E61379
 - UL 508, CSA C22.2 No. 107.1
- (6
 - IEC/EN60950-1, 2nd Edition
 - Model SVL 1-24-100, SVL 3-5-100, SVL 4-12-100, SVL 2-24-100 were evaluated for NEC Class 2 outputs.
- RoHS Compliant

Power Supplies



SVL Specifications <120W

Description	Catalog Number				
	SVL 3-5-100	SVL 1-24-100	SVL 6-5-100		
		Input			
put Voltage Range		85-264 Vac			
AC Range		100-240 Vac			
DC Range ¹		120-375 Vdc			
Frequency		50/60 Hz			
ominal Current	0.5 A @ 115 Vac 0.3 A @ 230 Vac	0.9 A @ 115 Vac 0.5 A @ 230 Vac			
· Inrush Current max,	35 A @ 115 Vac 65 A @ 230 Vac	35 A @ 115 Vac 60 A @ 230 Vac			
fficiency	79% typ	88% typ	80% typ		
eakage Current		<1 mA @ 240 Vac			
		Output			
ominal Voltage	5 V	24 V	5 V		
Tolerance		+/-2%			
oltage Adjustable Range	5-5.5 V	24-28 V	5-5.5 V		
Ripple (25 °C)	<75 mVp-p				
ARD (25 °C)	<75 mVp-p				
ominal Current	3 A	1.25 A	6 A		
lax. Power	15 W	30	W		
loldup Time t full load (25 °C)	20 ms typ. @ 115 Vac 100 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				
egulation		<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-rating ²	>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: 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	6.3-7.4 V, Latching	30-34.8 V, Latching	6.3-7.4 V, Latching		
Overload Protection	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 (11	5 Vac/230 Vac @ 25 °C) as per Telcordia SR-332 is	ssue 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	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				
mmunity	EN55024, EN61000-6-1, E	N61000-6-2 (EN61000-4-2, 3, 4, 5, 6, 8, 11, 12) L	evel 3, Performance Criteria A		
•	· · · · · · · · · · · · · · · · · · ·	General			
	2.95 x	0.82 x 3.52	2.95 x 1.18 x 3.52		
H x W x D in (mm		21.0 x 89.5)	(75.0 x 30.0 x 89.5)		
Unit Weight	0.242 lb (110 g)		0.352 lb (160 g)		
	GREEN light = DC OK , OCP = blinking				
LED Signals		GREEN light = DC OK , $OCP = blinking$			
		GREEN light = DC OK , OCP = blinking No			

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



SVL Specifications <120W

		Catalog Number			
Description	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	1.2 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	24 V		
- Tolerance		+/-2%			
Voltage Adjustable Range	12-15 V	24	I-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-rating ²	>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 I	Mode, Non-Latching (Auto-Recovery when the fau	It is removed)		
Power Factor Correction	Meets EN61000-3-2 Class A				
		Reliability			
MTBF	>350 khrs (1	15 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, EN550	11 Class B, EN61000-6-3, EN61000-6-4, EN6100	00-3-3, EN61204-3, EN61000-3-2 Class A		
Immunity	EN55024, EN61000-6-1, I	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		(1.18 x 3.52 (30.0 x 89.5)	2.95 x 1.77 x 3.93 (75.0 x 45.0 x 100.0)		
Unit Weight	0.39	7 lb (180 g)	0.716 lb (325 g)		
LED Signals	GREEN light = DC OK , OCP = blinking				
DC OK Relay Contact	No				
Warranty		2 year			
rrunality	2 you				

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

Power Supplies



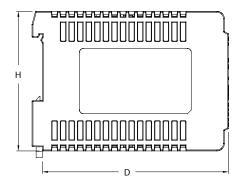
SVL Specifications >120W

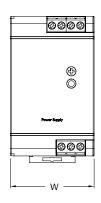
Description		Catal	og Number	
Безеприон	SVL 2-48-100	SVL 5-24-100	SVL 10-24-100	SVL 20-24-100
		Input		
nput Voltage Range			-264 Vac	
- AC Range			-240 Vac	
- DC Range ¹			-375 Vdc	
– Frequency			0/60 Hz	T =
Nominal Current	2.20 A @ 11: 1.20 A @ 23	0 Vac	2.8 A @ 115 Vac 1.4 A @ 230 Vac	5.4 A @ 115 Vac 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			8% typ	
Leakage Current			(@ 240 Vac	
	40\/	Output	0.41/	
Nominal Voltage	48V		24V	
- Tolerance	44.50.1/	-	+/-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	F.*	<120 mVp-p	22.4
Nominal Current	2.5 A	5 A	10 A	20 A
Max. Power	120 W	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	e and <1% Load	
		Environmental Data		
Operating Temperature		-20 °C	C to +70 °C	
Relative Humidity		5 to 95% RF	Non-condensing	
Storage temp		-40 °C	C to +85 °C	
Power De-rating ²	>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		acement, three axes for 60 min each oper 20 min each non-operational	erational and 5 Hz to 500 Hz a
		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.			
Over Temperature Protection	SVL 2-48-100: constant current at >40 V output and hiccup at <40 V output. No Component Damage, Latch Mode			
Short Circuit	Hir	· · · · · · · · · · · · · · · · · · ·	o-Recovery when the fault is removed)	
Power Factor Correction	Meets EN61000-3-2 Class A			
		Reliability		
MTBF	>700 kh		c) as per Telcordia SR-332 issue 3 Jan 20	011.
		EMC		
Galvanic Isolation		I/P to O/P: 3 KVac; I/P to Gi	ND: 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, EN610	000-6-2 (EN61000-4-2, 3, 4, 5	, 6, 8, 11, 12) Level 3, Performance Crite	eria A, SEMI F47 @ 200 Vac
		General		
H x W x D in (mm	4.84 x 1.57 > (123.6 x 40.0 >	4.63	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	·	660 g (1.45 lb)	1150 g (2.53 lb)
LED Signals	2.39(· · · · · · · · · · · · · · · · · · ·	C OK , OCP = blinking	1
DC OK Relay Contact	Yes			
noing ountion	2 year			

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



SVL Series Dimensions





Catalog	Dimensions — inches (mm)			
Number	Н	w	D	
SVL 3-5-100	2.95 (75.0)	0.82 (21.0)	3.52 (89.5)	
SVL 1-24-100	2.95 (75.0)	0.82 (21.0)	3.52 (89.5)	
SVL 6-5-100	2.95 (75.0)	1.18 (30.0)	3.52 (89.5)	
SVL 4-12-100	2.95 (75.0)	1.18 (30.0)	3.52 (89.5)	
SVL 2-24-100	2.95 (75.0)	1.18 (30.0)	3.52 (89.5)	
SVL 4-24-100	2.95 (75.0)	1.77 (45.0)	3.93 (100.0)	
SVL 2-48-100	4.84 (123.6)	1.57 (40.0)	4.63 (117.6)	
SVL 5-24-100	4.84 (123.6)	1.57 (40.0)	4.63 (117.6)	
SVL 10-24-100	4.87 (123.6)	2.36 (60.0)	4.63 (117.6)	
SVL 20-24-100	4.87 (123.6)	3.37 (85.5)	5.06 (128.5)	

Mouser Electronics

Authorized Distributor

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SolaHD:

<u>SVL 3-5-100</u> <u>SVL 1-24-100</u> <u>SVL 6-5-100</u> <u>SVL 2-24-100</u> <u>SVL 4-12-100</u> <u>SVL 4-24-100</u> <u>SVL 2-48-100</u> <u>SVL 5-24-100</u> SVL 10-24-100 <u>SVL 20-24-100</u> <u>SVL 1024100</u>