



## SVL SERIES: ESSENTIAL POWER SUPPLIES

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.

### SUITABLE APPLICATIONS

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

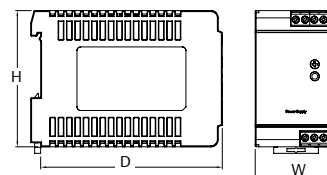
### ESSENTIAL FEATURES

- Universal Input
- Protection
  - Short Circuit
  - Over Voltage
  - Overload
  - Over Temperature
- Power Factor Correction
- Convection Cooling
- DC OK LED
- Blinking OCP Diagnostic
- DC OK Relay for >120 Watts models
- 2 year limited warranty

### CERTIFICATIONS AND COMPLIANCES

- Listed, Industrial Control Equipment, E61379
  - UL 508, CSA C22.2 No. 107.1
- Recognized Component, ITE, E137632
  - UL 60950-1/CSA C22.2 No. 60950-1, 2nd Edition
- - 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

### DIMENSIONS



| Catalog Number       | Dimension in Inches (Millimeters) |             |              |
|----------------------|-----------------------------------|-------------|--------------|
|                      | H                                 | W           | D            |
| <b>SVL 3-5-100</b>   | 2.95 (75.0)                       | 0.82 (21.0) | 3.52 (89.5)  |
| <b>SVL 1-24-100</b>  | 2.95 (75.0)                       | 0.82 (21.0) | 3.52 (89.5)  |
| <b>SVL 6-5-100</b>   | 2.95 (75.0)                       | 1.18 (30.0) | 3.52 (89.5)  |
| <b>SVL 4-12-100</b>  | 2.95 (75.0)                       | 1.18 (30.0) | 3.52 (89.5)  |
| <b>SVL 2-24-100</b>  | 2.95 (75.0)                       | 1.18 (30.0) | 3.52 (89.5)  |
| <b>SVL 4-24-100</b>  | 2.95 (75.0)                       | 1.77 (45.0) | 3.93 (100.0) |
| <b>SVL 2-48-100</b>  | 4.84 (123.6)                      | 1.57 (40.0) | 4.63 (117.6) |
| <b>SVL 5-24-100</b>  | 4.84 (123.6)                      | 1.57 (40.0) | 4.63 (117.6) |
| <b>SVL 10-24-100</b> | 4.87 (123.6)                      | 2.36 (60.0) | 4.63 (117.6) |
| <b>SVL 20-24-100</b> | 4.87 (123.6)                      | 3.37 (85.5) | 5.06 (128.5) |

**SOLAHD**

For product information:  
[www.solahd.com](http://www.solahd.com)  
 1.800.377.4384



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| Max. Power                  | 15W                                                                                                               | 30W                                                | 48W | 50W | 96W             | 120W                                                                                                                             | 240W            | 480W                                   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----|-----|-----------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------|
| Input                       |                                                                                                                   |                                                    |     |     |                 |                                                                                                                                  |                 |                                        |
| Input Voltage Range         | 85-264 Vac                                                                                                        |                                                    |     |     |                 |                                                                                                                                  |                 |                                        |
| - AC Range                  | 100–240 Vac                                                                                                       |                                                    |     |     |                 |                                                                                                                                  |                 |                                        |
| - DC Range <sup>①</sup>     | 120-375 Vdc                                                                                                       |                                                    |     |     |                 |                                                                                                                                  |                 |                                        |
| - Inrush Current Max.       | 35 A@115 Vac<br>65 A@230 Vac                                                                                      | 35 A@115 Vac<br>60 A@230 Vac                       |     |     |                 | 20 A typ.@115 Vac<br>40 A typ.@230 Vac                                                                                           |                 | 40 A typ.@115 Vac<br>80 A typ.@230 Vac |
| Power Factor Correction     | Meets EN61000-3-2 Class A                                                                                         |                                                    |     |     | Active PFC >.90 | Meets<br>EN61000-3-2<br>Class A                                                                                                  | Active PFC >.95 |                                        |
| Environmental Data          |                                                                                                                   |                                                    |     |     |                 |                                                                                                                                  |                 |                                        |
| Operating Temperature       | -20 °C to +70 °C (Refer to catalog specs for output derating curves)                                              |                                                    |     |     |                 |                                                                                                                                  |                 |                                        |
| Storage Temperature         | -40 °C to +85 °C                                                                                                  |                                                    |     |     |                 |                                                                                                                                  |                 |                                        |
| Protection                  |                                                                                                                   |                                                    |     |     |                 |                                                                                                                                  |                 |                                        |
| Overvoltage Protection      | Latch mode, re-power to recover                                                                                   |                                                    |     |     |                 |                                                                                                                                  |                 |                                        |
| Overload Protection         | Hiccup, auto-recovery                                                                                             | Current foldforward and then hiccup, auto-recovery |     |     |                 | 105-150% of rated load; constant current and then hiccup, auto-recovery                                                          |                 |                                        |
| Over Temperature Protection | No component damage, latch mode, re-power to recover                                                              |                                                    |     |     |                 |                                                                                                                                  |                 |                                        |
| Short Circuit               | Hiccup mode, non-latching, auto-recovery                                                                          |                                                    |     |     |                 |                                                                                                                                  |                 |                                        |
| Reliability                 |                                                                                                                   |                                                    |     |     |                 |                                                                                                                                  |                 |                                        |
| MTBF                        | > 350 khrs (115 Vac/230 Vac @ 25 °C) as per Telcordia SR-332 issue 3 Jan 2011.                                    |                                                    |     |     |                 | > 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: 3K Vac; I/P to GND: 1.5K Vac; O/P to GND: 0.5K Vac                                                    |                                                    |     |     |                 | I/P to O/P: 3K Vac; I/P to GND: 2K Vac;<br>O/P to GND: 0.5K Vac                                                                  |                 |                                        |
| 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)<br>Level 3, Performance Criteria A         |                                                    |     |     |                 | EN55024, EN61000-6-1, EN61000-6-2<br>(EN61000-4-2, 3, 4, 5, 6, 8, 11, 12)<br>Level 3, Performance Criteria A, SEMI F47 @ 200 Vac |                 |                                        |
| General                     |                                                                                                                   |                                                    |     |     |                 |                                                                                                                                  |                 |                                        |
| LED Signals                 | GREEN light = DC OK , OCP = blinking                                                                              |                                                    |     |     |                 |                                                                                                                                  |                 |                                        |

| Power | Catalog Number | DC Output Voltage | Output Current | Tolerance | Ripple & Noise | Efficiency   | Unit Weight lb (g) | Shipping Weight lb (g) |
|-------|----------------|-------------------|----------------|-----------|----------------|--------------|--------------------|------------------------|
| 15 W  | SVL 3-5-100    | 5 V               | 3 A            | +/-2%     | <75 mVp-p      | 79% typ.     | 0.242 (110)        | 0.309 (140)            |
| 30 W  | SVL 1-24-100   | 24 V              | 1.25 A         |           |                | 88% typ.     |                    |                        |
|       | SVL 6-5-100    | 5 V               | 6 A            |           |                | 80% typ.     | 0.368 (167)        | 0.419 (190)            |
| 50 W  | SVL 4-12-100   | 12 V              | 4 A            |           |                | 88% typ.     | 0.390 (177)        | 0.478 (217)            |
|       | SVL 2-24-100   | 24 V              | 2.1 A          |           |                | 89% typ.     | 0.698 (317)        | 0.816 (370)            |
| 96 W  | SVL 4-24-100   |                   | 4 A            |           | <120 mVp-p     | 88% typ.     | 1.190 (540)        | 1.460 (660)            |
| 120 W | SVL 2-48-100   | 48 V              | 2.5 A          |           |                |              |                    |                        |
|       | SVL 5-24-100   | 24 V              | 5 A            |           | <100 mVp-p     |              | 1.760 (800)        | 2.090 (950)            |
| 240 W | SVL 10-24-100  |                   | 10 A           |           |                |              |                    |                        |
| 480 W | SVL 20-24-100  |                   | 20 A           |           |                | 2.870 (1300) |                    |                        |

① DC input range based on product functional performance, not UL Listed.

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