

## Silver Line Series – Single & Multi-Output Linear

The Silver Line series follows the industry accepted footprint for open frame, linear power supplies. Standard screw terminal connections and optional covers are offered for safety considerations.



### Applications

- Industrial Control Circuits and Components
- Instrumentation
- Drives
- CNC Machinery
- Equipment for food industry
- Microprocessor Circuits
- Analog Circuits
- Noise sensitive Circuitry and Sensors

### Features

- Easy-to-install screw terminal connections
- Cover options
- Industry standard footprint
- Universal input and approvals (115/230 Vac)
- Low noise, extremely quiet DC output. For noise sensitive or analog circuitry.
- Fast transient response. Ideal for test applications.
- Built-in OVP on 5 V models and optional on 12, 15 and 24 V models
- Automatic resetting overload protection
- Short circuit protected
- Two year limited warranty

### Certifications and Compliances

- **cULus** Recognized Component, ITE
  - UL 60950-1
- **CSA** Certified, ITE
  - CSA C22.2 CSA 60950-1
- **CE**
  - IEC60950-1

### Specifications

| Parameter                                | Condition  | Limit   |
|--|--|---|
| <b>Input</b>                             |  |   |
| <b>Input Voltage</b>                     |  | 100/120/220/230/240 Vac Selectable  |
| <b>Input Frequency</b>                   |  | 47-63 Hz  |
| <b>Output</b>                            |  |   |
| <b>Line Regulation</b>                   | for 10% change   | 0.05%   |
| <b>Load Regulation</b>                   | for 50% change   | 0.05%   |
| <b>Ripple</b>                            |  | 3.0 mV maximum Peak-to-Peak   |
| <b>DC Output Adjustment Range</b>        |  | ±5% Minimum   |
| <b>Overvoltage Protection</b>            |  | All 5-Volt outputs include build-in OVP as standard (setting is 6.2 V ±0.4 V)<br>OVP is optionally available on other types |
| <b>Transient Response Time</b>           | at 50% Load Changes  | 50 msec.  |
| <b>Overload Protection</b>               |  | Automatic current limit foldback  |
| <b>Remote Sensing</b>                    | Available to compensate for output voltage drop on selected models.          | 0.5 Vdc   |
| <b>General</b>                           |  |   |
| <b>Operating Temperature Range</b>       | Derate to 40% at +70°C   | 0 to +50°C  |
| <b>Storage Temperature Range</b>         |  | -25°C to +85°C  |
| <b>Temperature Coefficient (Typical)</b> |  | 0.01% 0°C   |
| <b>Stability</b>                         | After warm-up  | ±.5%  |
| <b>EMI/RFI</b>                           | Linear power supplies have inherently low conducted and radiate noise levels | For most system applications they will meet requirements of FCC Class B and VDE 0871 for Class B                            |
| <b>Cover Option</b>                      | Derate power by an additional 15%  |   |
| <b>Cooling</b>                           | Forced air. 20 CFM required for full rating<br>Derate 30% without cooling    |   |

Specifications are typical. Load Regulation on outputs without Remote Sense, .1% typical.

SL Series Selection Table

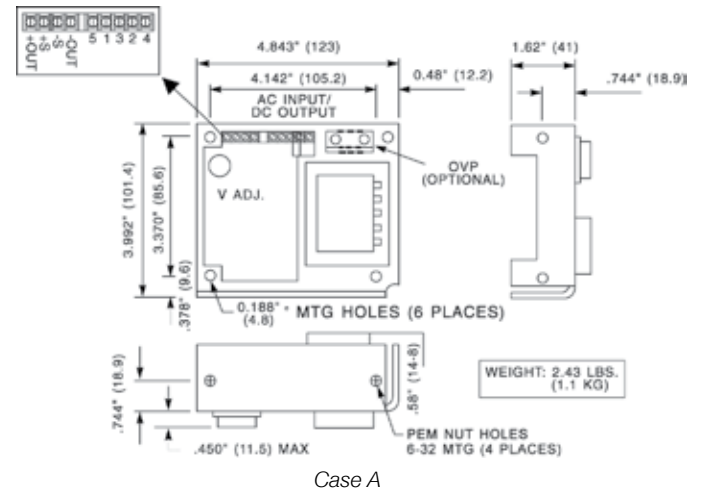
| Catalog Number                | Output 1                                     | Output 2  | Output 3                                    | Case |
|-------------------------------|--|---|---|------|
| SLS-05-030-1T                 | 5 V @ 3 A *2                                 | -   | -   | A    |
| SLS-05-060-1T                 | 5 V @ 6 A *2                                 | -   | -   | B1   |
| SLS-05-090-1T                 | 5 V @ 9 A *2                                 | -   | -   | C    |
| SLS-05-120-1T                 | 5 V @ 12 A *2                                | -   | -   | I2   |
| SLS-12-017T1                  | 12 V @ 1.7 A <sup>2</sup> or<br>15 V @ 1.5 A | -   | -   | A    |
| SLS-12-034T                   | 12 V @ 3.4 A <sup>2</sup>                    | -   | -   | B1   |
| SLS-12-051T                   | 12 V @ 5.1 A <sup>2</sup>                    | -   | -   | C    |
| SLS-12-068T                   | 12 V @ 6.8 A <sup>2</sup>                    | -   | -   | I2   |
| SLS-15-045T                   | 15 V @ 4.5 A <sup>2</sup>                    | -   | -   | C    |
| SLS-15-060T                   | 15 V @ 6 A <sup>2</sup>                      | -   | -   | I2   |
| SLS-24-012T                   | 24 V @ 1.2 A v                               | -   | -   | A    |
| SLS-24-024T                   | 24 V @ 2.4 A <sup>2</sup>                    | -   | -   | B2   |
| SLS-24-036T                   | 24 V @ 3.6 A <sup>2</sup>                    | -   | -   | C    |
| SLS-24-048T                   | 24 V @ 4.8 A <sup>2</sup>                    | -   | -   | I2   |
| SLS-24-072T                   | 24 V @ 7.2 A <sup>2</sup>                    | -   | -   | K    |
| SLS-24-120T                   | 24 V @ 12.0 A <sup>2</sup>                   | -   | -   | L    |
| SLD-12-1010-12T <sup>1</sup>  | 12 V @ 1 A or<br>15 V @ .8 A                 | -12 V @ 1 A or<br>-15 V @ .8                                | -   | H1   |
| SLD-12-1818-12T <sup>1</sup>  | 12 V @ 1.8 A or<br>15 V @ 1.5 A              | -12 V @ 1.8 A or<br>-15 V @ 1.5 A                           | -   | D    |
| SLD-12-3434-12T               | 12 V @ 3.4 A <sup>2</sup>                    | -12 V @ 3.4 A <sup>2</sup>                                  | -   | I3   |
| SLD-15-3030-15T               | 15 V @ 3 A <sup>2</sup>                      | -15 V @ 3 A <sup>2</sup>                                    | -   | I3   |
| SLD-12-6034-05T               | 5 V @ 6 A *2                                 | 12 V @ 3.4 A <sup>2</sup>                                   | -   | I1   |
| SLD-12-3015-05T               | 5 V @ 3 A *2                                 | 12 V @ 1.5 A  | -   | C1   |
| SLT 12-20404-12T <sup>1</sup> | 5 V @ 2 A *2                                 | 12 V @ .4 A or<br>15 V @ .4 A                               | -12 V @ .4 A or<br>-15 V @ .4 A             | H2   |
| SLT 12-31010-12T1             | 5 V @ 3 A *2                                 | 12 V @ 1 A <sup>2</sup> or<br>15 V @ .8 A                   | -12 V @ 1 A <sup>2</sup><br>or -15 V @ .8 A | F    |
| SLT 12-61818-12T1             | 5V @ 6A *2                                   | 12 V @ 1.8 A or<br>15 V @ 1.5 A                             | -12 V @ 1.8<br>A or -15 V @<br>1.5 A        | G2   |
| Over Voltage Protector (OVP)  |  |   |   |      |
| SLO-12-000-1                  | 6.2 V to 34 V<br>Adjustable @ 8 A            | For Cases B through K                                       |   | J1   |
| SLO-12-000-TB                 | 6.2 V to 34 V<br>Adjustable @ 8 A            | For Case A or Cases B through K<br>(when used with a cover) |   | J2   |

Notes:

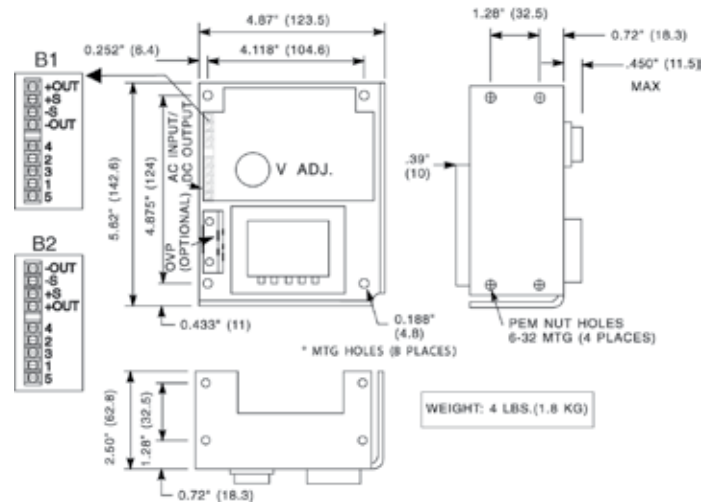
\* With Built-In OVP

- 12/15 Volt models are factory set for 12 Volt operation. 15 Volt operation is field adjustable.
2. With Remote Sense (R.S.)

Dimensions - inches (mm)



Case A



Case B

Cover Options

| Catalog Number | Description      | Catalog Number | Description                  |
|----------------|------------------|----------------|------------------------------|
| SLCASA-CVR     | Cover for Case A | SLCASI-CVR     | Cover for Cases I1, I2, & I3 |
| SLCASB-CVR     | Cover for Case B | SLCASK-CVR     | Cover for Case K             |
| SLCASC-CVR     | Cover for Case C | SLCASL-CVR     | Cover for Case L             |

Note:

Covers are sold separately. When used, derate the power supply by 15% of its rated value.

Silver Line Dimensions (inches/mm)



Cases C and C1



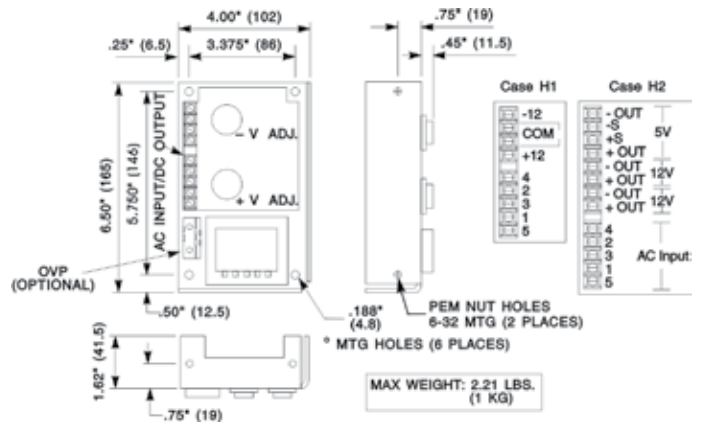
Case D



Case F



Case G2



Cases H1 and H2

AC Input Jumper Connections

| For use at: | 100 Vac  | 120 Vac  | 220 Vac | 230/240 Vac |
|-------------|----------|----------|---------|-------------|
| Connect:    | 1-3, 2-4 | 1-3, 2-4 | 2-3     | 2-3         |
| Apply AC:   | 1 & 5    | 1 & 4    | 1 & 5   | 1 & 4       |



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- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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