

## 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

-  Recognized Component, ITE
  - UL 60950-1
-  Certified, ITE
  - CSA C22.2 CSA 60950-1
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  - 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) 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 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 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 15 V @ .8 A	-12 V @ 1 A or -15 V @ .8	-	H1
SLD-12-1818-12T <sup>1</sup>	12 V @ 1.8 A or 15 V @ 1.5 A	-12 V @ 1.8 A or -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 15 V @ .4 A	-12 V @ .4 A or -15 V @ .4 A	H2
SLT 12-31010-12T1	5 V @ 3 A *2	12 V @ 1 A <sup>2</sup> or 15 V @ .8 A	-12 V @ 1 A <sup>2</sup> or -15 V @ .8 A	F
SLT 12-61818-12T1	5V @ 6A *2	12 V @ 1.8 A or 15 V @ 1.5 A	-12 V @ 1.8 A or -15 V @ 1.5 A	G2
Over Voltage Protector (OVP)				
SLO-12-000-1	6.2 V to 34 V Adjustable @ 8 A	For Cases B through K		J1
SLO-12-000-TB	6.2 V to 34 V Adjustable @ 8 A	For Case A or Cases B through K (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.
- 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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