

125W Single Output Medical / Industrial Grade







FEATURES AND BENEFITS



Small Size of 2" X 4" X 1.2"	UL/CSA/IEC/IEC60601-1, IEC62368-1 Approved
For 1U Applications	2 x MOPP Isolation
85W Convection Cooled	Meets 4th Edition/Heavy Industrial EMC
125W With 200 LFM Airflow	-20°C To 70°C Operating Temperature Range
Certified to 90-264 VAC	3 Years Warranty

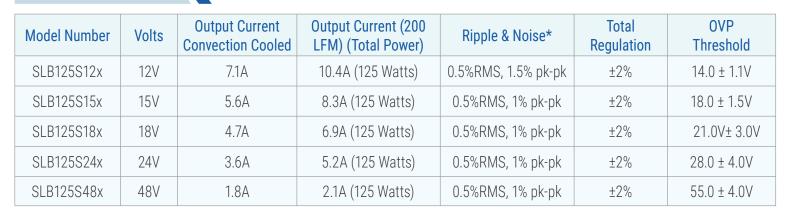






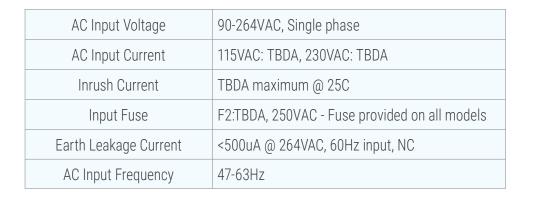


MODEL SELECTION



Notes: Replace the "x" at the end of the model number with "C" for class II (ungrounded) input, or replace with "K" for class I (grounded) input.

INPUT





EFFICIENCY

Model Number	Typical	Measured @ 25°C
SLB125S12x, SLB125S15x	89% @ 230VAC, Full load	86.5% @ 115VAC, Full load
SLB125S18x	89% @ 230VAC, Full load	87% @ 115VAC, Full load
SLB125S24x	89% @ 230VAC, Full load	87% @ 115VAC, Full load
SLB125S48x	90% @ 230VAC, Full load	88% @ 115VAC, Full load

OUTPUT

Hold-up Time	16ms minimum from loss of AC input at 115VAC	
Turn On Time	<2 seconds @115VAC (<3s for 12V output)	
Output Power	Max of 85 Watts for convection cooled Max of 125 Watts for fan cooled	
Ripple and Noise	0.5% RMS, 1% pk-pk for all models	20 MHz Bandwidth, differential mode Measured with noise probe directly across output terminals, and load terminated with 0.1µF ceramic and 10µF low ESR capacitors
Transient Response	500 μ s typ. response time for return to within 0.5% of final value for a 50% load change, $\Delta i/\Delta t$ < 0.2A/ μ s Max voltage deviation is 3.5%	Measured @ 25°C
Minimum Load	No minimum load is required	
Total Regulation	±2% for all models	Total regulation is the maximum deviation from nominal voltage for all loading conditions
Cooling	Convection (85W Output) Forced Air of 200 LFM (125W output)	
Overshoot	5% overshoot at turn-on, 5% overshoot at turn-off, under all conditions	

ENVIRONMENT

Operating Temperature	-20°C to +70°C
Temperature Derating	60% derating at 70°C
Cooling	Convection/Airflow
Storage Temperature	-40°C to +85°C
Altitude	Operating: 500 to 5,000 meter
Relative Humidity	Non-operating: 500 to 40,000 ft
Shock	5% to 95%, Non-condensing
Vibration	Non-operating: Half-sine, 40 gpk, 10ms, 3 axes, 6 shocks total
	Random vibration per MIL-STD-810E, Method 514.4, Cat. 1, Figure 514.4-1, 1 hr in each of three axes

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SAFETY

UL	EN/CSA/UL/IEC 60601-1 3rd edition & EN62368-1
CSA	Same as above
Demko	Same as above
CB Report	Yes
Isolation Type	Double/Reinforced between input and output

ISOLATION SPECIFICATIONS

Inculation Cofety Deting	Input to Ground	1 x MOPP
Insulation Safety Rating	Input to Output	2 x MOPP
	Input to Ground	1500VAC
Electric Strength Test Voltage	Input to Output	4,000VAC
	Output to Ground	1500VAC

PROTECTION

Overtemperature Protection	Automatic power shutdown
Overload Protection	120% - 180% of rated output current value, Hiccup mode
Short Circuit Protection	Short across the output terminals will not cause damage to the unit. Hiccup mode
Overvoltage Protection	OVP firing reduces output voltage to <50% of nominal in <50ms. See chart for trip range

EMI/EMC COMPLIANCE

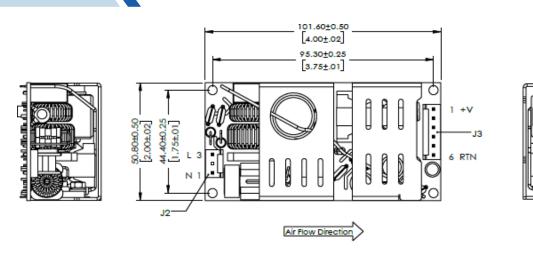
Conducted Emissions	EN55011/22 Class B; FCC Part 15	
Radiated Emissions	EN55011/22 Class A; FCC Part 15	
Harmonic Current Emissions	EN61000-3-2, Class A, B, C & D	Meets class C from 5 to 125W. This is based on limits set @ 125W
Voltage Fluctuations & Flicker	EN61000-3-3	
Static Discharge Immunity	EN61000-4-2, Level 4: 6kV contact, 8kV air, Criteria A	
RF Field Susceptibility	EN61000-4-3, Level 3 (3V/m), Criteria A	
Fast Transients/Bursts	EN61000-4-4, Level 3 (PS: 2kV-40A, other lines 1kV-20A), Criteria A	Performance criteria are defined as following:
Surge Susceptibility	EN61000-4-5, Installation Class 3 (1kV diff. mode, 2kV common mode), Criteria A	A – Normal performance during and after test B – Temporary degradation, self-recoverable
Conducted RF Susceptibility	EN61000-4-6, Level 3 (3Vrms), Criteria A	C – Temporary degradation, operator
Power Frequency Magnetic Field Test	EN61000-4-8, Level 3 (3A/m), Criteria A	intervention required to recover the operation
Voltage Sags & Surges	EN61000-4-11 - 95% dip/0.5 cycle (Criteria A), 60%/5cycles (Criteria B), 30%/25 cycles (Criteria A) Loading is 70% of 100W with 100VAC	

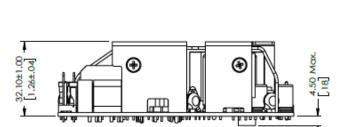


RELIABILITY

MTBF	>500K hours, 25°C ambient, full load	Calculation is done based on Telcordia Reports for each model is available
Warranty	3 Years	
HALT Data	Per SL Power Halt procedure	Report is available

MECHANICAL DRAWING





CONNECTOR OPTIONS

Input Connector J2	MATING CONNECTOR Tyco/AMP 640250-3 Terminals: 3-640252-1	CONFIGURATION #1 AC NEUTRA #2 EMPTY #3 AC LINE
Output Connector J3	MATING CONNECTOR AMP 640250-6 Terminals: 3-640252-1	CONFIGURATION Pin 1) +Vout Pin 4) RTN Pin 2) +Vout Pin 5) RTN Pin 3) +Vout Pin 6) RTN

Note: 1. All dimensions in inches (mm) undefined tolerance is ±.02" (0.5mm).

- 2. Mounting holes should be connected together for EMI purpose.
- 3. FG is safety ground connection.
- 4. This power supply requires mounting on metal standoffs 0.20" (5mm) Min. in height.