SLB65 Family

65W Single Output Medical / Industrial Grade







FEATURES AND BENEFITS





Small 2" X 3" x 1.2" Form Factor	Approved To UI/CSA/IEC/IEC62368-1
For 1U Applications	2 x MOPP Isolation
65W Convection Cooled	Meets 4th Edition/Heavy Industrial EMC
Universal Input 80-264VAC	-20°C To 70°C Operating Temperature Range
Approved to UL/CSA/IEC/IEC60601-1, 3rd. Ed.	3 Years Warranty







MODEL SELECTION

Model Number	Volts	Output Current Convection Cooled	Output Power	Ripple & Noise*	Total Regulation	OVP Threshold
SLB65S05x	5V	8.0A	40 Watts	0.5%RMS, 1.5% pk-pk	±2%	7.9 ± 1.1V
SLB65S12x	12V	5.0A	60 Watts	0.5%RMS, 1.5% pk-pk	±2%	14.0 ± 1.1V
SLB65S15x	15V	4.0A	65 Watts	0.5%RMS, 1% pk-pk	±2%	18.0 ± 1.5V
SLB65S18x	18V	3.6A	65 Watts	0.5%RMS, 1% pk-pk	±2%	21V± 3.0V
SLB65S24x	24V	2.71A	65 Watts	0.5%RMS, 1% pk-pk	±2%	28.0 ± 4.0V
SLB65S48x	48V	1.35A	65 Watts	0.5%RMS, 1% pk-pk	±2%	55.0 ± 4.0V

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





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EFFICIENCY

Model Number	Typical	Measured @ 25°C
SLB65S12x, SLB65S15x	89% @ 230VAC, Full load	86.5% @ 115VAC, Full load
SLB65S18x	89% @ 230VAC, Full load	87% @ 115VAC, Full load
SLB65S24x	89% @ 230VAC, Full load	87% @ 115VAC, Full load
SLB65S48x	88% @ 230VAC, Full load	88% @ 115VAC, Full load

OUTPUT

Hold-up Time	12ms typical from loss of AC input at 115VAC	
Turn On Time	<2 seconds @115VAC (<3s for 12V output)	
Output Power	Max of 65 Watts for convection cooled	
Ripple and Noise	0.5% RMS, 1%~1.5% 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, $\Delta i/\Delta t < 0.2A/\mu$ 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 (65W 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	40% derating at 70°C	
Cooling	Convection	
Storage Temperature	-40°C to +85°C	
Altitude	Operating: 500 to 5,000 meters Non-operating: 500 to 40,000 ft	
Relative Humidity	5% to 95%, Non-condensing	
Shock	Non-operating: Half-sine, 40 gpk, 10ms, 3 axes, 6 shocks total	
Vibration	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 BF Rated & EN62368-1
CSA	Same as above
Demko	Same as above
CB Report	Yes
Isolation Type	Double/Reinforced between input and

ISOLATION SPECIFICATIONS

Insulation Safety Rating	Input to Ground	1 x MOPP
IIISUIduoti Salety Ratiliy	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	Will shut down upon an overtemperature condition, auto-recovery.
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	115% to 130% of nominal output voltage. Latching, recycle AC power to recover.

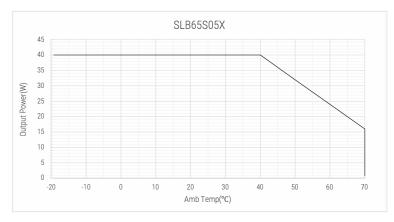
EMI/EMC COMPLIANCE

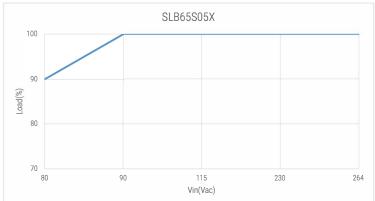
Conducted Emissions	EN55011/22 Class B; FCC Part 15 EN55015/CISPR15:2013, CISPR22 2006 Class B, CISPR32 Class B, FCC Part 15.107, Class B: at 115 and 230Vac	
Radiated Emissions	EN55011/22 Class A; FCC Part 15 CISPR15 radiated EN55032/CISPR22 Class B, CIS- PR32 Class B, FCC Part 15.109, Class B: at 115 and 230Vac	
Harmonic Current Emissions	EN61000-3-2, Class A, B, C & D	
Voltage Fluctuations & Flicker	EN61000-3-3	
Static Discharge Immunity	EN61000-4-2, Level 4: 8kV contact,15kV air, Criteria A	
RF Field Susceptibility	EN61000-4-3, Level 3 (3V/m), Criteria A EN55032/EN61000-4-3, 10V/m, 80MHz-2.7GHz, 80% AM at 1kHz IEC60601-1-2, 4th Edition, Table 4	Performance criteria are defined as following: A – Normal performance during and after the test
Fast Transients/Bursts	EN61000-4-4, Level 3 (PS: 2kV-40A, other lines 1kV-20A), Criteria A EN55024/IEC61000-4-4, Level 4, +/- 4kV, 100Khz rep rate, 40A, Criteria A IEC60601-1-2, 4th Edition, Table 5	B – Temporary degra-dation, self-recoverable C – Temporary degradation, operator intervention required to recover the operation



Surge Susceptibility	EN61000-4-5, Installation Class 3 (1kV diff. mode, 2kV common mode), Criteria A EN55024/IEC61000-4-5, Level 4, +/-2kV DM, +/-4kV CM, Criteria A Surpasses IEC60601-1-2, 4th Edition requirements.	
Conducted RF Susceptibility	EN61000-4-6, Level 3 (3Vrms), Criteria A EN55032/IEC61000-4-6, 3V/m – Level 4, 0.15 to 80Mhz; and 12V/m) in ISM and amateur radio bands between 0.15Mhz and 80Mhz, 80% AM at 1KHz IEC60601-1-2, 4th Edition, Table 5.	
Power Frequency Magnetic Field Test	IFC60601-1-2 4th Edition Table 4 C - Temporar	
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 EN55024/IEC/EN61000-4-11:100% dip for 10 mS, at 0, 45, 90, 135, 180, 225, 270 and 315 degrees:100% dip for 20mS, 0 deg., Criteria A100% dip for 5000mS (250/300 cycles), Criteria B 60% dip for 100mS, Criteria B 30% dip for 500mS, Criteria A IEC60601-1-2, 4th Edition, Table 5	required to recover the operation

DERATING CURVES



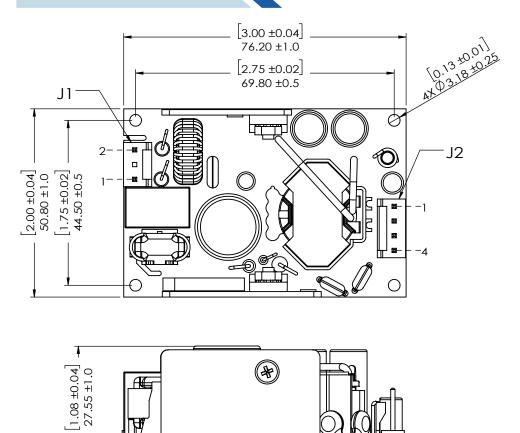




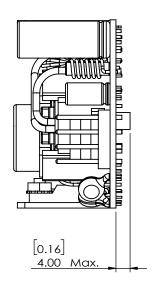


MTBF	>500K hours, 25°C ambient, full load	Calculation is done based on Telcordia Reports for each model is available
Warranty	3 Years	
HALT Data	Per SL Power Halt procedure	Report is available

MECHANICAL DRAWING



<u>ת מצא מי ה**ולוס**וויות מנו בלחים מי</u> בם ה<u>יום משום מ</u>



CONNECTOR INFORMATION

		SLB65 COI	NNECTORS	
Connector	Pin#	Assignment	Mating Connector	Mating Pin
	1	L		
Input (J1)	2	Empty	AMP: 640250-3	AMP: 640252-2
. , ,	3	N		
Ground (G1)	1	Ring type terminal or similar ³		
Output (J2)	1	+V1		
	2	+V1	AMD (40050 4	AND (400F0)
	3	RTN	AMP: 640250-4	AMP: 640252-2
	4	RTN		

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