

Features

- 3" x 2" foot print
- Height 1" above PCB
- 120 Watts with Forced Air Cooling
- Efficiencies upto 93%
- -40 to 70 degree operating temperature
- Thermal Shut-Down feature
- >3.00m Hours, Telcordia-SR332-issue 3
- Standby Power < 0.3W

Electrical Specifications

Input Voltage	85-264 VAC/390 VDC ⁴ , Universal (see derating under output power)	
Input Frequency	47-63 Hz	
Input Current	115 VAC: 1.2 A max.	230 VAC: 0.65 A max.
No Load Power	less than 0.3W typical	
Inrush Current	115 VAC – 25 A, 230 VAC – 45 A, 264 VAC – 75 A	
Efficiency	93%(48V,58V), 91%(24V,30V), 90%(12V,15V)	
Hold-up Time	>10 ms typical	
Power Factor	exceeds 0.95 with Full Load, Active PFC	
Output Power	Forced cooling : 120W with 300LFM (refer mechanical drawing) Convection cooling : 100W (for input 100-264 VAC) (de-rate linearly to 80W @ 85VAC)	
Output Voltage Adjustability	+/-3%	
Line Regulation	+/-0.5%	
Load Regulation	+/-1%	
Transient Response	25% step load change, at 0.1A/uS slew rate, 50% duty cycle, 50Hz=4% , recovery time < 5 ms	
Rise Time	55ms typical	
Set Point Tolerance	+/-1%	
Over Current Protection	>110%	
Over Voltage Protection	110 to 140%, Latch type (AC recycling required)	
Short Circuit Protection	Hiccup mode	
Switching Frequency	60 KHz typical	
Operating Temperature*	-40 to +70°C	
Storage Temperature	-40 to +85°C	
Relative Humidity	5% to 95%, noncondensing	
Altitude	Operating: 16,000 ft.; Nonoperating: 40,000 ft.	
MTBF	>3.00m Hours, Telcordia-SR332-issue 3	
Isolation Voltage	Input to Output – 3000V AC for ITE application Input to GND - 1500 VAC	

Specifications are subject to change without notice. It is responsibility of each customer to thoroughly test each product and part number under their unique parameters and environments to ensure a product will work properly and reliably.

Click below for more details, to buy on-line or request volume pricing:

<http://power.sager.com/eos-LFWLP120-power-supply.html>

(866) 588-1750
power@sager.com
<http://power.sager.com>

Model Number	Description	Voltage	Max. Load (Convection)	Max. Load (300 LFM)	Min. Load	Ripple ¹
LFWLP120-1001	with Screw Terminal	12 V	8.33A	10.0A	0.0 A	1%
LFWLP120-1301	with Molex Header	12 V	8.33A	10.0A	0.0 A	1%
LFWLP120-1002	with Screw Terminal	15 V	6.66A	8.0A	0.0 A	1%
LFWLP120-1302	with Molex Header	15 V	6.66A	8.0A	0.0 A	1%
LFWLP120-1003	with Screw Terminal	24 V	4.16A	5.0A	0.0 A	1%
LFWLP120-1303	with Molex Header	24 V	4.16A	5.0A	0.0 A	1%
LFWLP120-1004	with Screw Terminal	48 V	2.08A	2.5A	0.0 A	1%
LFWLP120-1304	with Molex Header	48 V	2.08A	2.5A	0.0 A	1%
LFWLP120-1005	with Screw Terminal	30 V	3.33A	4.0A	0.0 A	1%
LFWLP120-1305	with Molex Header	30 V	3.33A	4.0A	0.0 A	1%
LFWLP120-1006	with Screw Terminal	58 V	1.72A	2.07A	0.0 A	1%
LFWLP120-1306	with Molex Header	58 V	1.72A	2.07A	0.0 A	1%
LFWLP120-CK metal cover kit accessory						

Connectors		
J1	Pin 1	AC LINE
	Pin 2	NOT FITTED
	Pin 3	AC NEUTRAL
J2	Pin 1,2	V1 -VE
	Pin 3,4	V1 +VE

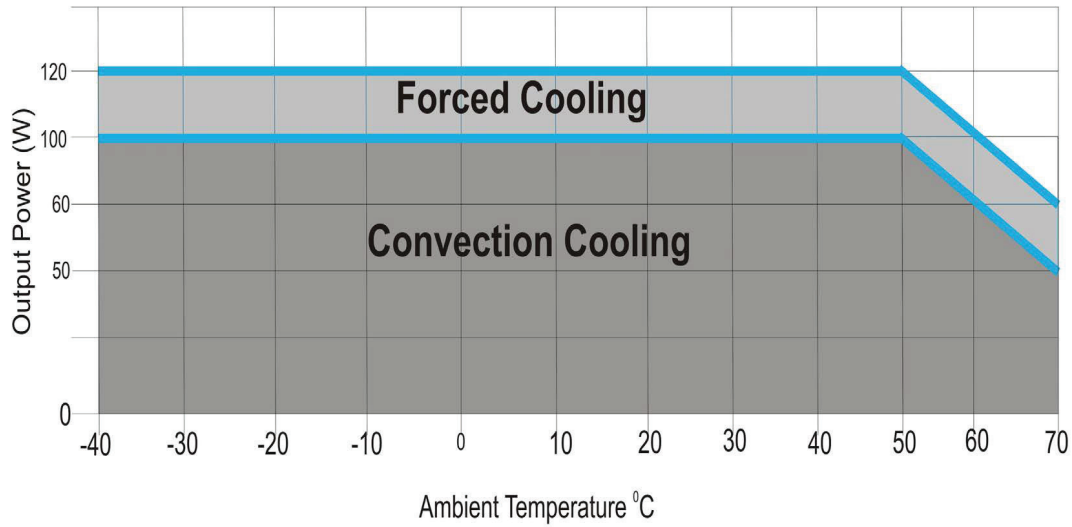
Notes

1. Ripple is peak to peak with 20 MHz bandwidth and 10 μ F (Tantalum capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.
2. Specifications are for nominal input voltage, 25°C unless otherwise stated.
3. -40 to 0°C startup is guaranteed with spec deviation in output ripple and voltage regulation.
4. Functional, not approved.

Mechanical Specifications			
AC Input Connector (J1) Option 1	Molex: 39357-0003 Tyco: 2-1776112-3	Option 2	Molex: 1722861103 (Mating conn: Molex 1722561003)
DC Output Connector (J2) Option 1	Molex: 39357-0004 Tyco: 2-1776112-4	Option 2	Molex: 1722861104 (Mating conn: Molex 1722561004)
Dimensions	3 x 2 x 1.18 inches (76.2 x 50.8 x 30.1 mm)		
Weight	150gm approx		
EMC			
CE Mark	Complies with LVD Directive		
Conducted Emissions	EN55022-B, CISPR22-B, FCC PART15-B		
Static Discharge	EN61000-4-2, Level-3		
RF Field Susceptibility	EN61000-4-3, Level-3		
Fast Transients/Bursts	EN61000-4-4, Level-3		
Radiated Emissions	Level A radiated, Level B radiated with external core (King core K5B RC 25x12x15-M in input cable with 5 Turns)		
Surge Susceptibility	EN61000-4-5, Level-3		
Harmonic Current	EN61000-3-2, Class D		
Safety			
Safety Standard(s)	IEC/EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013, UL 60950-1, 2nd Edition, CAN/CSA C22.2 No. 60950-1-07, 2nd Edition		
Approval Agency	Nemko, UL, C-UL		
Safety File Number(s)	CB TEST CERTIFICATE : NO88701 Nemko: No. P15220324 UL: E150565		
Environmental			
RoHS Version	LFWLP120 series meet RoHS compliance as per european RoHS directive (Directive 2011 / 65 / EU)		

Derating Curve

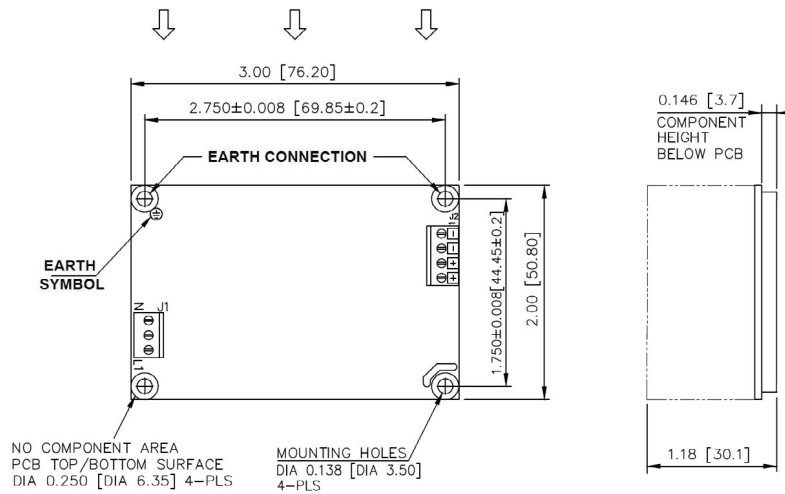
12V,15V,24V,30V,48V,58V Output



Mechanical Drawing

Option -1

DIRECTION OF AIRFLOW
FOR FORCED COOLING

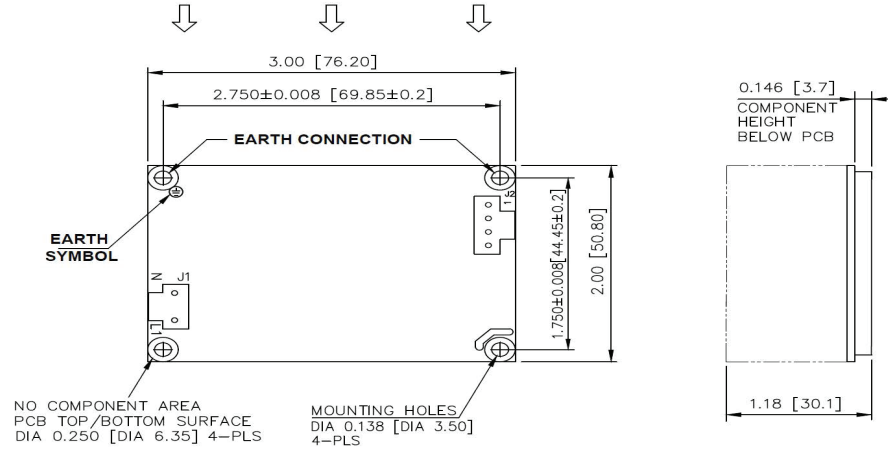


MECHANICAL OUTLINE DIMENSIONS
ALL DIMENSIONS ARE IN INCHES[MM]
GEN TOLERANCE: ±0.06

Mechanical Drawing

Option -2

DIRECTION OF AIRFLOW
FOR FORCED COOLING



MECHANICAL OUTLINE DIMENSIONS
ALL DIMENSIONS ARE IN INCHES[MM]
GEN TOLERANCE: ±0.06