

## Features

- 3 x 2 x 1 Inches Form factor
- 75 Watts Convection
- Efficiencies upto 93%
- -40 to 70 degree operating temperature
- Thermal Shut-Down feature
- 2.00m Hours, Telcordia-SR332-issue 3
- Standby Power < 0.3W

## Electrical Specifications

Input Voltage	85-264 VAC/390 VDC <sup>4</sup> , Universal (Derate from 75W at 100V AC to 65W at 85V AC)	
Input Frequency	47-63 Hz	
Input Current	115 VAC: 1 A max.	230 VAC: 0.5 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	>16 ms typical	
Power Factor	exceeds 0.95 with Full Load, Active PFC	
Output Power	75W Convection	
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	Typ 110%	
Over Voltage Protection	110 to 140%, Latch type (AC recycling required)	
Short Circuit Protection	Hiccup mode	
Switching Frequency	60 KHz typical	
Operating Temperature <sup>3</sup>	- 40 to +70°C, * -40 to 0°C startup is guaranteed with spec deviation	
Storage Temperature	-40 to +85°C	
Relative Humidity	5% to 95%, noncondensing	
Altitude	Operating: 16,000 ft.; Nonoperating: 40,000 ft.	
MTBF	2.00m Hours, Telcordia-SR332-issue 3	
Isolation Voltage	Input to Output – 3000V AC for ITE application Input to GND - 1500 VAC	
Cooling	75W with natural convection cooling at 100 to 264VAC.	

Model Number	Description	Voltage	Max. Load (Convection)	Min. Load	Ripple <sup>1</sup>
LFWLP75-1001	with Screw Terminal	12 V	6.25A	0.0 A	1%
LFWLP75-1301	with Molex Header	12 V	6.25A	0.0 A	1%
LFWLP75-1002	with Screw Terminal	15 V	5.00A	0.0 A	1%
LFWLP75-1302	with Molex Header	15 V	5.00A	0.0 A	1%
LFWLP75-1003	with Screw Terminal	24 V	3.12A	0.0 A	1%
LFWLP75-1303	with Molex Header	24 V	3.12A	0.0 A	1%
LFWLP75-1004	with Screw Terminal	48 V	1.56A	0.0 A	1%
LFWLP75-1304	with Molex Header	48 V	1.56A	0.0 A	1%
LFWLP75-1005	with Screw Terminal	30 V	2.50A	0.0 A	1%
LFWLP75-1305	with Molex Header	30 V	2.50A	0.0 A	1%
LFWLP75-1006	with Screw Terminal	58 V	1.29A	0.0 A	1%
LFWLP75-1306	with Molex Header	58 V	1.29A	0.0 A	1%

LFWLP75-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  $\mu$ F (Tantalum capacitor) in parallel with a 0.1  $\mu$ F capacitor at rated line voltage and load ranges.
2. Specifications are for nominal input voltage, 25°C unless otherwise stated.
3. Output ripple can be more than 10% of the output voltage.
4. Functional, not approved.
5. When used in Cover Kit, de-rate output power to 70 % under all operating conditions



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## 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 inches (76.2 x 50.8 x 25.4 mm)		
Weight	180gm Max.		

## EMC

Parameter	Conditions/Description	Criteria
Conducted Emissions	EN55032-B, CISPR22-B, FCC PART15-B	Pass
Radiated Emissions	EN 55032 A	Pass Level B with external core (King core K5B RC 25x12x15-M in input cable)
Input Current Harmonics	EN 61000-3-2	Class D
Voltage Fluctuation and Flicker	EN 61000-3-3	Pass
ESD Immunity	EN 61000-4-2	Level 3, Criterion A
Radiated Field Immunity	EN 61000-4-3	Level 3, Criterion A
Electrical Fast Transient Immunity	EN 61000-4-4	Level 3, Criterion A
Surge Immunity	EN 61000-4-5	Level 3, Criterion A
Conducted Immunity	EN 61000-4-6	Level 3, Criterion A
Magnetic Field Immunity	EN 61000-4-8	Level 3, Criterion A
Voltage dips, interruptions	EN 61000-4-11	Criterion A & B

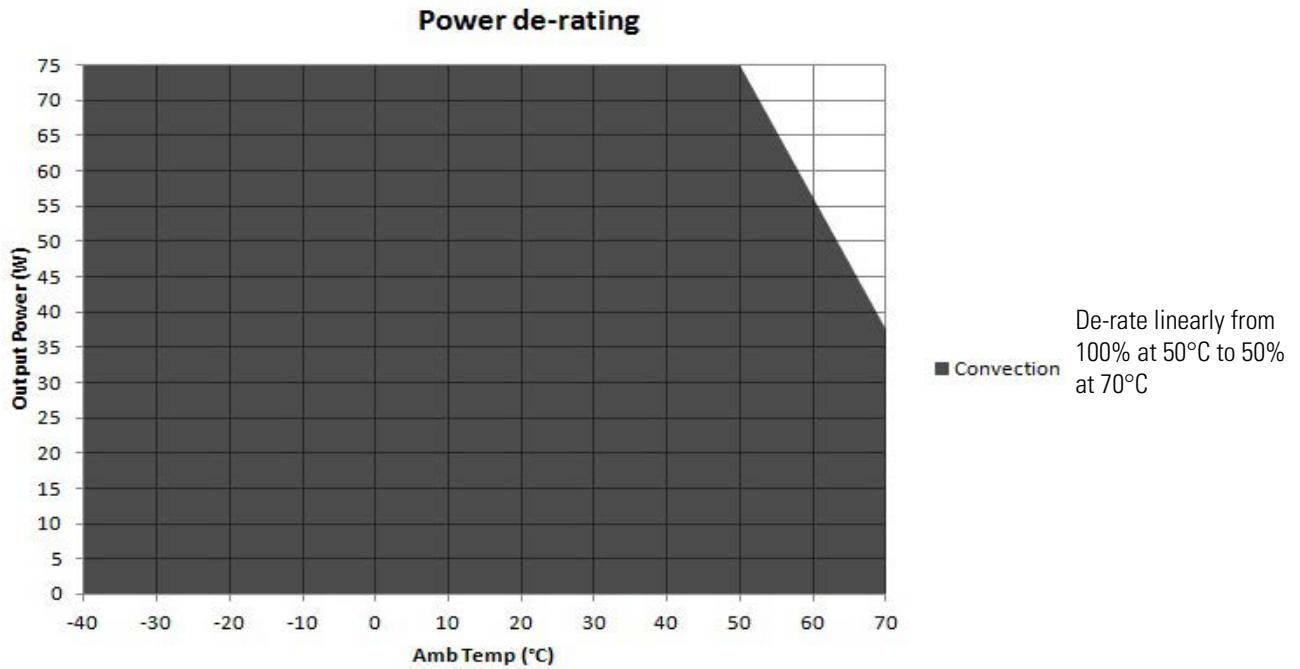
## Safety

CE Mark	Complies with LVD Directive
Approval Agency	Nemko, UL, C-UL, CCC
Safety Standard(s)	EN60950-1, IEC 60950-1:2005 (Ed 2), UL 60950-1 Ed 2, CAN/CSA C22.2 No. 60950-1-07 Ed 2, GB4943. 1-2011 ; GB9254-2008 ; GB17625. 1-2012
Safety File Number(s)	CB TEST CERTIFICATE : NO88704 Nemko: No. P15220324 UL: E150565

## Environmental

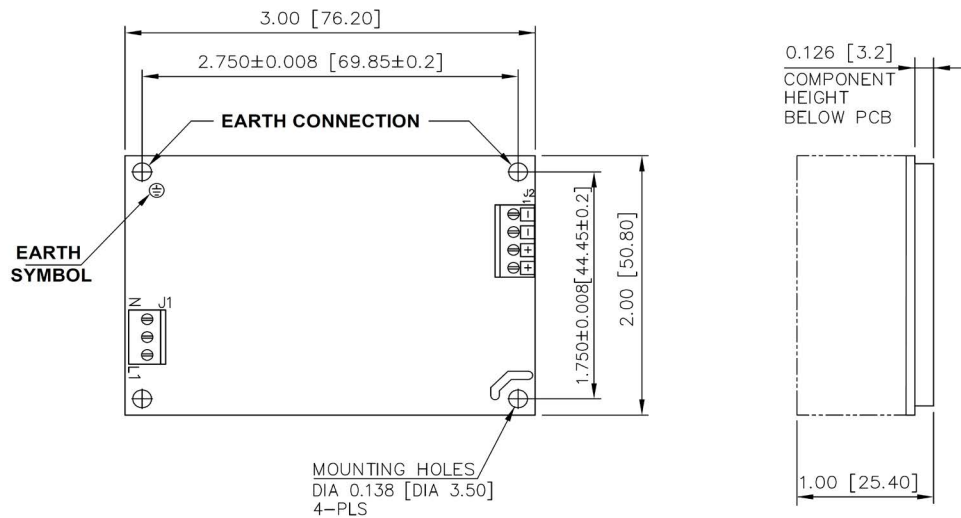
RoHS Version	LFWLP75 series meet RoHS compliance as per european RoHS directive (Directive 2011 / 65 / EU)
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## Derating Curve



## Mechanical Drawing

### Option -1



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

Notes: In case the PCB is mounted in a metal enclosure, using metal hardware ensure the following

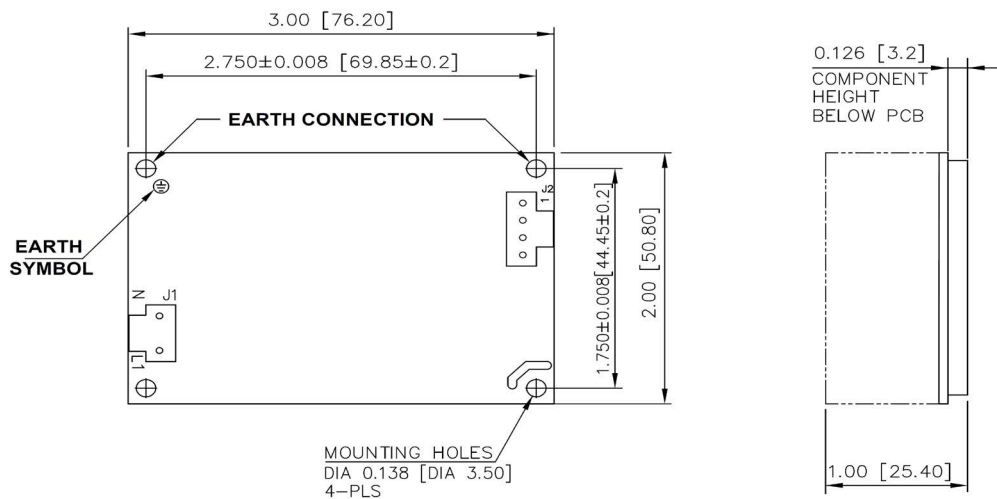
1. Stand off, used to mount PCB has OD of 5.4 mm max.
2. Screws, used to fix PCB on stand off, have head dia of 6.0 mm max.
3. Washer, if used, to have dia of 6.5 mm max.



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## Mechanical Drawing

### Option -2



MECHANICAL OUTLINE DIMENSIONS  
ALL DIMENSIONS ARE IN INCHES[MM]  
GEN TOLERANCE:  $\pm 0.06$

Notes: In case the PCB is mounted in a metal enclosure, using metal hardware ensure the following

1. Stand off, used to mount PCB has OD of 5.4 mm max.
2. Screws, used to fix PCB on stand off, have head dia of 6.0 mm max.
3. Washer, if used, to have dia of 6.5 mm max.