

## Features

- 3 x 2 x 1 Inches Form factor
- 100 Watts with Convection Cooling
- Approval to EN60601 3<sup>rd</sup> Edition
- Efficiencies upto 94%
- -40 to 70 degree operating temperature
- Dual fusing
- Thermal Shut-Down feature
- >3.37m Hours, Telcordia -SR332-issue 3
- Standby Power < 0.3W
- Class II option available

## Electrical Specifications

Input Voltage	85-264 VAC/390 VDC, Universal (Derate from 100% at 100V AC to 80% 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	
Leakage Current	300 uA Typical, (N.A. For Class II Option)	Touch current <100uA
Efficiency	94%(48V), 93%(24V,30V), 92%(12V,15V)	
Hold-up Time	16 ms	
Power Factor	exceeds 0.95 with Full Load	
Output Power	100W Convection	
Output Voltage Adjustability	+/-3%	
Line Regulation	+/-0.5%	
Load Regulation	+/-0.5%	
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%	
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	>3.37m Hours, Telcordia -SR332-issue 3	
Isolation Voltage	Input to Output – 4000 VAC medical applications. Input to GND - 1500 VAC (Not Applicable For Class II Option) Output to GND- 1500VAC for type BF , 500 VAC for type B (Not Applicable For Class II Option)	
Cooling	100W with natural convection cooling at 100 to 264VAC.	

Model Number	Description	Voltage	Max. Load (Convection)	Min. Load	Ripple <sup>1</sup>
LFMWLP100-1001	with Screw Terminal	12 V	8.33A	0.0 A	1%
LFMWLP100-1001-II	with Screw Terminal	12 V	8.33A	0.0 A	1%
LFMWLP100-1002	with Screw Terminal	15 V	6.66A	0.0 A	1%
LFMWLP100-1002-II	with Screw Terminal	15 V	6.66A	0.0 A	1%
LFMWLP100-1003	with Screw Terminal	24 V	4.16A	0.0 A	1%
LFMWLP100-1003-II	with Screw Terminal	24 V	4.16A	0.0 A	1%
LFMWLP100-1004	with Screw Terminal	48 V	2.08A	0.0 A	1%
LFMWLP100-1004-II	with Screw Terminal	48 V	2.08A	0.0 A	1%
LFMWLP100-1005	with Screw Terminal	30 V	3.33A	0.0 A	1%
LFMWLP100-1005-II	with Screw Terminal	30 V	3.33A	0.0 A	1%
LFMWLP100-1006	with Screw Terminal	58 V	1.72A	0.0 A	1%
LFMWLP100-1006-II	with Screw Terminal	58 V	1.72A	0.0 A	1%
LFMWLP100-CK metal cover kit accessory					

Connectors		
J1	Pin 1	AC NEUTRAL
	Pin 2	NOT FITTED
	Pin 3	AC LINE
J2	Pin 1,2	+VE
	Pin 3,4	-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. Class II means without input Earth pin.
3. Combined output power of main output, fan supply shall not exceed max. Power rating.
4. Specifications are for nominal input voltage, 25°C unless otherwise stated.
5. -40 to 0°C startup is guaranteed with spec deviation in output ripple and voltage regulation.

## Mechanical Specifications

AC Input Connector (J1) Molex: 39357-0003  
Tyco-2-1776112-3

DC Output Connector (J2)  
(Screw Terminal) Tyco-1776112-4

Dimensions 3 x 2 x 1 inches  
(76.2 x 50.8 x 25.4 mm)

Weight TBD

## 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) EN60601-1, IEC 60601-1 (ed.3), ANSI / AAMI ES 60601 - 1, CSA C22.2 No. 60601-1

Approval Agency Nemko, UL, C-UL

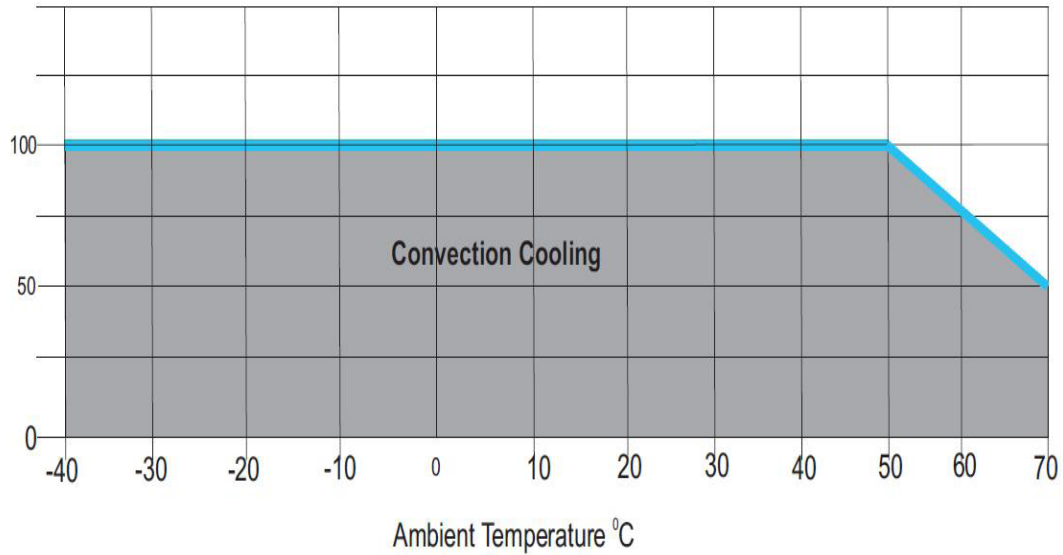
Safety File Number(s) (Pending)

## Environmental

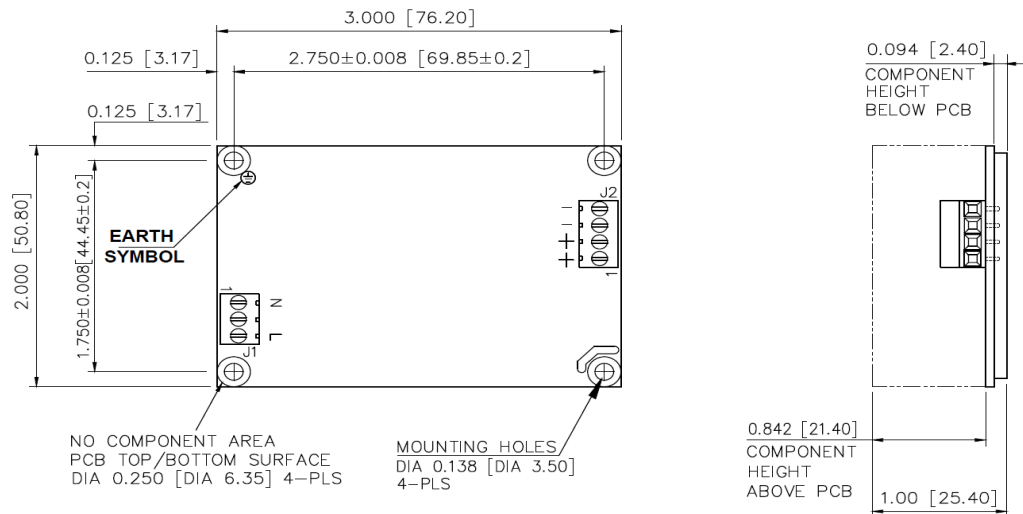
RoHS Version LFWLP100 series meet RoHS compliance as per european RoHS directive  
(Directive 2011 / 65 / EU)

## Derating Curve

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



## Mechanical Drawing



MECHANICAL OUTLINE DIMENSIONS  
ALL DIMENSIONS ARE IN INCHES[MM]  
GEN TOLERANCE: ±0.04 [±1.0MM]