

Features

- 4 x 2 x 1 Inches Form factor
- 225 Watts with Forced Air Cooling & 112.5 Watts Convection Cooling
- Approval to EN60601 3rd Edition
- Efficiencies upto 94%
- -40 to 70 degree operating temperature*
- Dual fusing
- 12V Fan Output, Thermal Shut-Down feature
- > 800K Hours MTBF
- Standby Power < 0.5W
- Medical (BF) Safety Approvals

Electrical Specifications

| | | |
|--------------------------|--|----------------------|
| Input Voltage | 85-264 VAC/390 VDC, Universal (Derate from 100% at 100V AC to 95% at 85V AC) | |
| Input Frequency | 47-63 Hz | |
| Input Current | 115 VAC: 2.2 A max. | 230 VAC: 1.1 A max. |
| No Load Power | less than 0.5W 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 | at 225W:10 ms ; 110W: 16 ms | |
| Power Factor | exceeds 0.95 with Full Load | |
| Output Power | 225W with 13 CFM, 112.5W Convection | |
| 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 | PFC – 70 to 130 KHz ,PWM – 50-80 KHz | |
| Operating Temperature | -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: 10,000 ft.; Nonoperating: 40,000 ft. | |
| MTBF | > 800 kh; Bellcore TR-332 | |
| 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 | 225W with 13 CFM forced air cooling at 100 to 264VAC (refer Mechanical Drawing) 112.5W with natural convection cooling at 100 to 264VAC. | |

| Model Number | Voltage | Max. Load (Convection) | Max. Load (13 CFM) | Min. Load | Ripple ¹ |
|---------------------------------------|---------|---------------------------|-----------------------|-----------|---------------------|
| LFMWLP225-1001 | 12 V | 9.37A | 18.75A | 0.0 A | 1% |
| LFMWLP225-1002 | 15V | 7.5A | 15A | 0.0 A | 1% |
| LFMWLP225-1003 | 24V | 4.68A | 9.37A | 0.0 A | 1% |
| LFMWLP225-1004 | 48 V | 2.34A | 4.68A | 0.0 A | 1% |
| LFMWLP225-1005 | 30 V | 3.75A | 7.5A | 0.0 A | 1% |
| LFMWLP225-1006 | 58 V | 1.94A | 3.88A | 0.0 A | 1% |
| LFWLP225-CK metal cover kit accessory | | | | | |

| Connectors | | |
|------------|-----------|------------|
| J1 | Pin 1 | AC NEUTRAL |
| | Pin 2 | NOT FITTED |
| | Pin 3 | AC LINE |
| J2 | Pin 1,2,3 | V1 -VE |
| | Pin 4,5,6 | V1 + VE |
| J3 | Pin 1 | FAN -VE |
| | Pin 2 | FAN +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. Class II means without input Earth pin.
3. Combined output power of main output, fan supply shall not exceed max. Power rating.
4. Fan supply output voltage tolerance including set point accuracy, line and load regulation is +/-10% and Ripple and noise is less than 10%.
5. Specifications are for nominal input voltage, 25°C unless otherwise stated.

Mechanical Specifications

| | |
|--------------------------|---|
| AC Input Connector (J1) | Molex: 26-60-4030 Mating: 09-50-3031; Pins: 08-50-0106 |
| DC Output Connector (J2) | Molex: 26-60-4060 Mating: 09-50-3061; Pins: 08-50-0106 |
| Aux (Fan) Output(J3) | AMP :640456-2 Mating: 640440-2 |
| Dimensions | 4 x 2 x 1 inches (101.60 x 50.8x 25.4 mm) |
| Weight | 200 gm 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 |
| Surge Susceptibility | EN61000-4-5, Level-3 |
| Harmonic Current | EN61000-3-2, Class D |

Safety

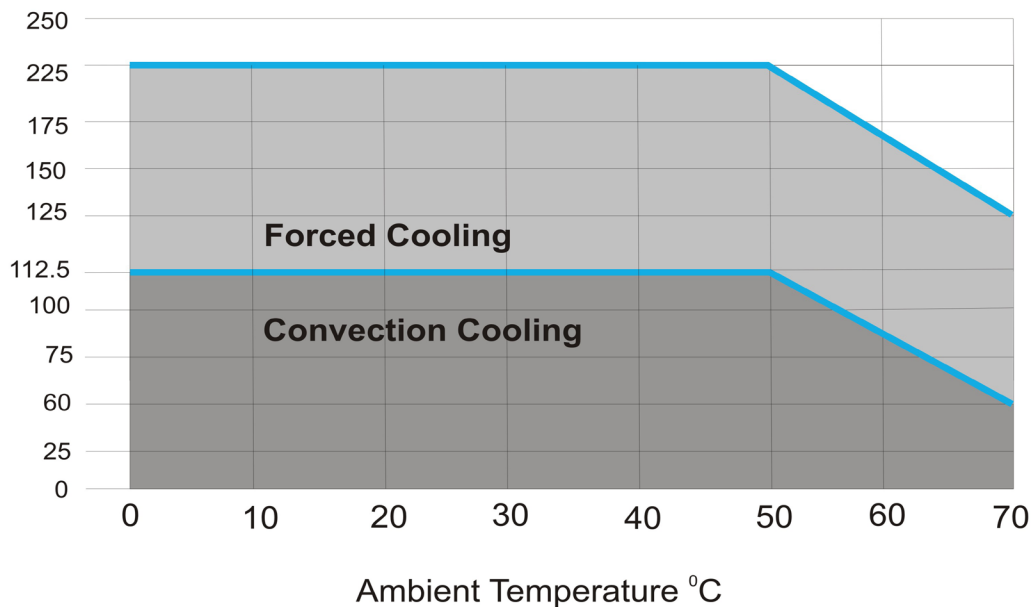
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|-----------------------|--|
| Safety Standard(s) | EN60601-1, IEC 60601-1 (ed.3), ANSI / AAMI ES 60601 - 1, CSA C22.2 No. 60601-1 |
| Approval Agency | Nemko, UL, C-UL |
| Safety File Number(s) | (Pending) |



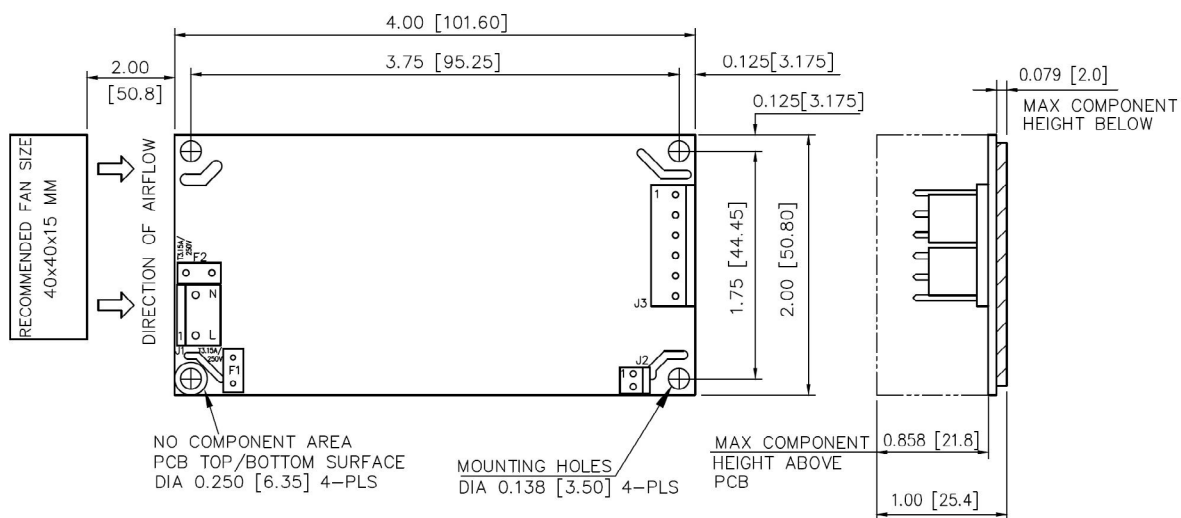
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Derating Curve

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



Mechanical Drawing



MECHANICAL OUTLINE DIMENSIONS
ALL DIMENSIONS ARE IN INCHES[MM]
GEN TOLERANCE : +/-0.02[0.5mm]