

| Model Number | Description | Voltage | Max. Load (Convection) | Max. Load (300 LFM) | Min. Load | Ripple ¹ |
|---------------------------------------|---------------------|---------|---------------------------|------------------------|-----------|---------------------|
| FWLWP120-1001 | with Screw Terminal | 12 V | 8.33A | 10.0A | 0.0 A | 1% |
| FWLWP120-1301 | with Molex Header | 12 V | 8.33A | 10.0A | 0.0 A | 1% |
| FWLWP120-1002 | with Screw Terminal | 15 V | 6.66A | 8.0A | 0.0 A | 1% |
| FWLWP120-1302 | with Molex Header | 15 V | 6.66A | 8.0A | 0.0 A | 1% |
| FWLWP120-1003 | with Screw Terminal | 24 V | 4.16A | 5.0A | 0.0 A | 1% |
| FWLWP120-1303 | with Molex Header | 24 V | 4.16A | 5.0A | 0.0 A | 1% |
| FWLWP120-1004 | with Screw Terminal | 48 V | 2.08A | 2.5A | 0.0 A | 1% |
| FWLWP120-1304 | with Molex Header | 48 V | 2.08A | 2.5A | 0.0 A | 1% |
| FWLWP120-1005 | with Screw Terminal | 30 V | 3.33A | 4.0A | 0.0 A | 1% |
| FWLWP120-1305 | with Molex Header | 30 V | 3.33A | 4.0A | 0.0 A | 1% |
| FWLWP120-1006 | with Screw Terminal | 58 V | 1.72A | 2.07A | 0.0 A | 1% |
| FWLWP120-1306 | with Molex Header | 58 V | 1.72A | 2.07A | 0.0 A | 1% |
| FWLWP120-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 (Electrolytic 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. 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.
6. For Class II version Enquire with EOS Sales Rep before Order



Innovations in Power

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 | 200gm 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

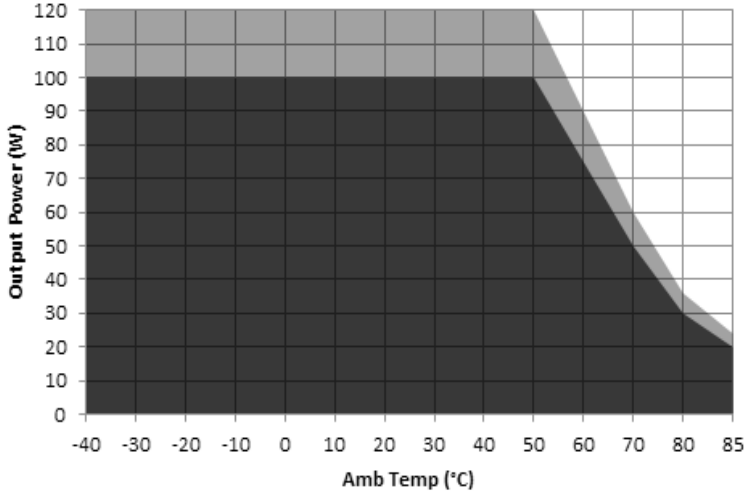
| | |
|-----------------------|---|
| CE Mark | Complies with LVD Directive |
| Approval Agency | Nemko, UL, C-UL, CCC |
| Safety Standard(s) | IEC/EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013, UL 60950-1, 2nd Edition, CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, GB4943. 1-2011 ; GB9254-2008 ; GB17625. 1-2012 |
| Safety File Number(s) | CB TEST CERTIFICATE : N088701 Nemko: No. P15220324 UL: E150565 |

Environmental

| | |
|--------------|---|
| RoHS Version | LFWLP120 series meet RoHS compliance as per european RoHS directive (Directive 2011 / 65 / EU) |
|--------------|---|

Derating Curve

Power De-rating



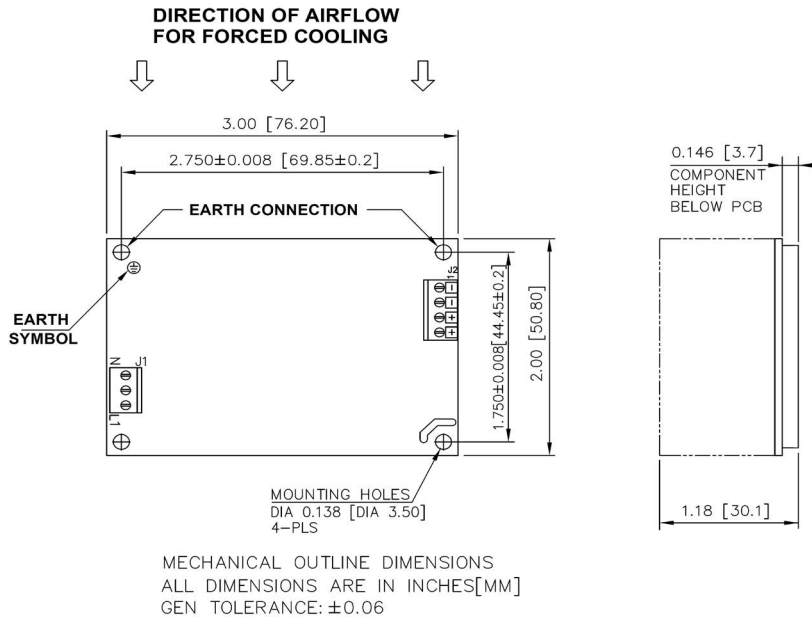
■ Forced Air Cooled
■ Convection cooled

Convection load: 100W up to 50 °C
De-rate above 50 °C @ 2.5% per °C
De-rate between 70 °C to 85°C @ 4% per °C

Forced air cooled load : 120W up to 50°C
De-rate above 50 °C @ 2.5% per °C
De-rate between 70 °C to 85°C @ 4% per °C

Mechanical Drawing

Option -1



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.

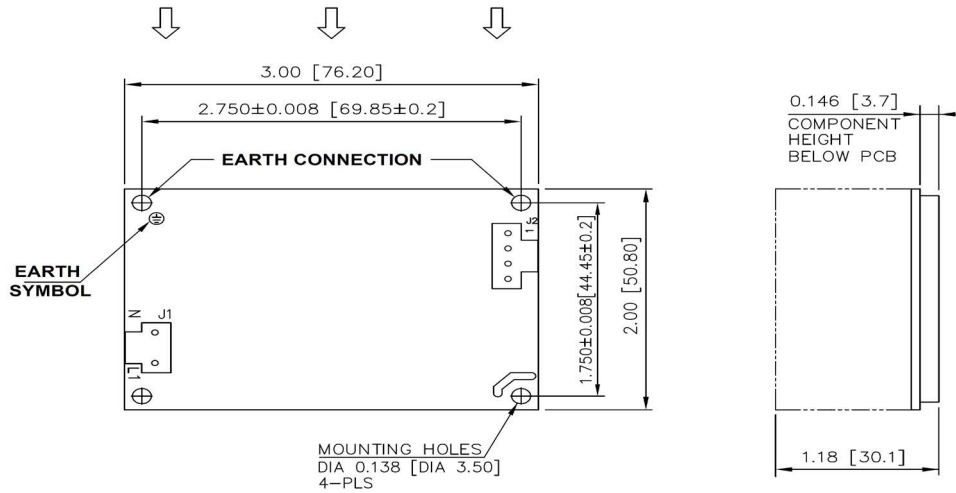


Innovations in Power

Mechanical Drawing

Option -2

DIRECTION OF AIRFLOW
FOR FORCED COOLING



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.