WLP75 Industrial



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
- Now IEC/UL62368-1:2018 Compliant
 New
- Fulfils EN 62368-1:2014 +A11:2017
- 2.00m Hours, Telcordia-SR332-issue 3
- No Load Power < 0.3W
- Approved with metal enclosures/accessories

| | Electrical Specifications | | |
|------------------------------------|---|--|--|
| Input Voltage | 85-264 VAC/390 VDC ⁴ , 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 | Тур 110% | | |
| Over Voltage Protection | 110 to 140%, Latch type (AC recycling required) | | |
| Short Circuit Protection | Hiccup mode | | |
| Switching Frequency | 60 KHz typical | | |
| Operating Temperature ³ | - 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 – 4000 VDC for ITE application | | |
| | Input to GND - 2500 VDC | | |
| Cooling | 75W with natural convection cooling at 100 to 264VAC. | | |

| Model Number | Power Supply Unit & its Installation Type | Power | Voltage | Max. Load (Convection) | Ripple ¹ |
|--------------------------|--|--------|---------|---------------------------|---------------------|
| LFWLP75-1X01-CK | In CK cover Kit | 52.5 W | 12 V | 4.38 A | 1% |
| LFWLP75-1X01 | In Open Frame | | | | |
| LFWLP75-1X01-L | With L Bracket | 75 W | 12 V | 6.25 A | 1% |
| LFWLP75-1X01-B | With Base Plate | | | | |
| LFWLP75-1X01-U | With U channel | | | | |
| LFWLP75-1X02-CK | In CK cover Kit | 52.5 W | 15 V | 3.50 A | 1% |
| LFWLP75-1X02 | In Open Frame | | | | |
| LFWLP75-1X02-L | With L Bracket | 75 W | 15 V | 5.00 A | 1% |
| LFWLP75-1X02-B | With Base Plate | | | | |
| LFWLP75-1X02-U | With U channel | | | | |
| LFWLP75-1X03-CK | In CK cover Kit | 52.5 W | 24 V | 2.18 A | 1% |
| LFWLP75-1X03 | In Open Frame | | | | |
| LFWLP75-1X03-L | With L Bracket | 75 W | 24 V | 3.12 A | 1% |
| LFWLP75-1X03-B | With Base Plate | | | | |
| LFWLP75-1X03-U | With U channel | | | | |
| LFWLP75-1X04-CK | In CK cover Kit | 52.5 W | 48 V | 1.09 A | 1% |
| LFWLP75-1X04 | In Open Frame | | | | |
| LFWLP75-1X04-L | With L Bracket | 75 W | 48 V | 1.56 A | 1% |
| LFWLP75-1X04-B | With Base Plate | | | | |
| LFWLP75-1X04-U | With U channel | | | | |
| LFWLP75-1X05-CK | In CK cover Kit | 52.5 W | 30 V | 1.75 A | 1% |
| LFWLP75-1X05 | In Open Frame | | | | |
| LFWLP75-1X05-L | With L Bracket | 75 W | 30 V | 2.50 A | 1% |
| LFWLP225-1X05-B | With Base Plate | | | | |
| LFWLP225-1X05-U | With U channel | | | | |
| LFWLP75-1X06-CK | In CK cover Kit | 52.5 W | 58 V | 0.90 A | 1% |
| LFWLP75-1X06 | In Open Frame | | | | |
| LFWLP75-1X06-L | With L Bracket | 75 W | 58 V | 1.29 A | 1% |
| LFWLP75-1X06-B | With Base Plate | | | | |
| LFWLP75-1X06-U | With U channel | | | | |
| For Header version repla | ion replace "X" above with "0", exa ace "X" above with "3", example LFV cover kit accessory available. | • | | | |



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

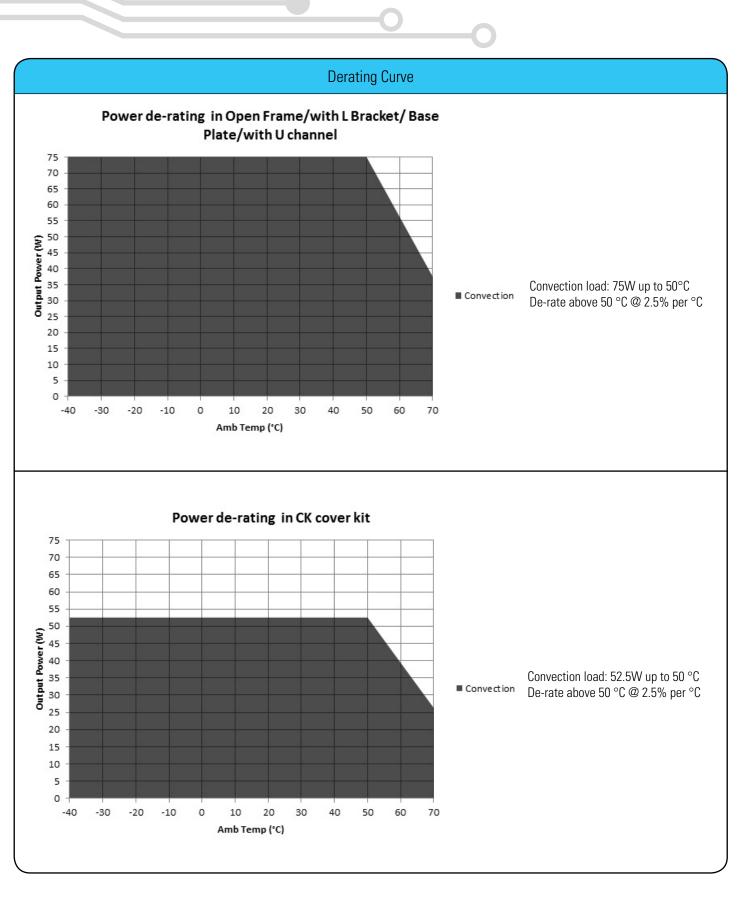
Notes

- 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.

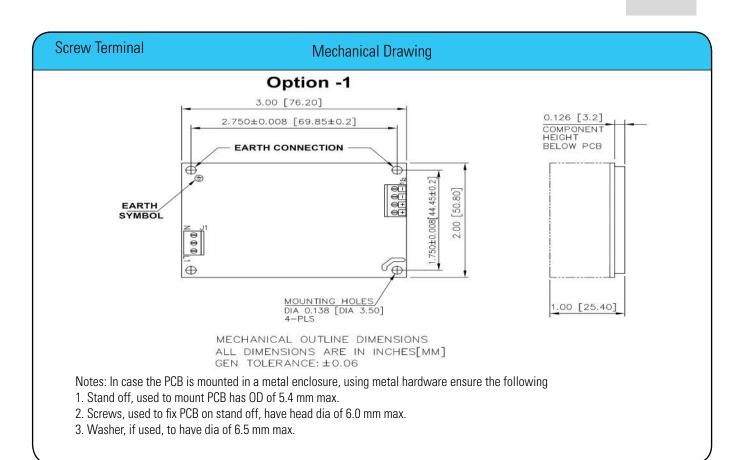
4. Functional, not approved.

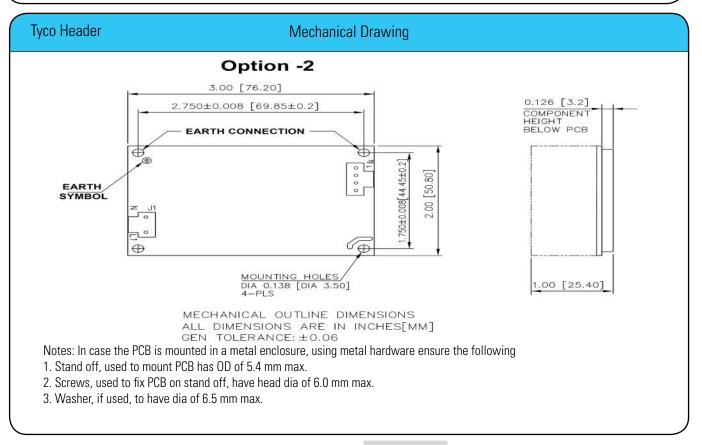
- 5. When used in Cover Kit, de-rate output power to 70 % under all operating conditions.
- 6. For Class II version Enquire with EOS Sales Rep before Order.

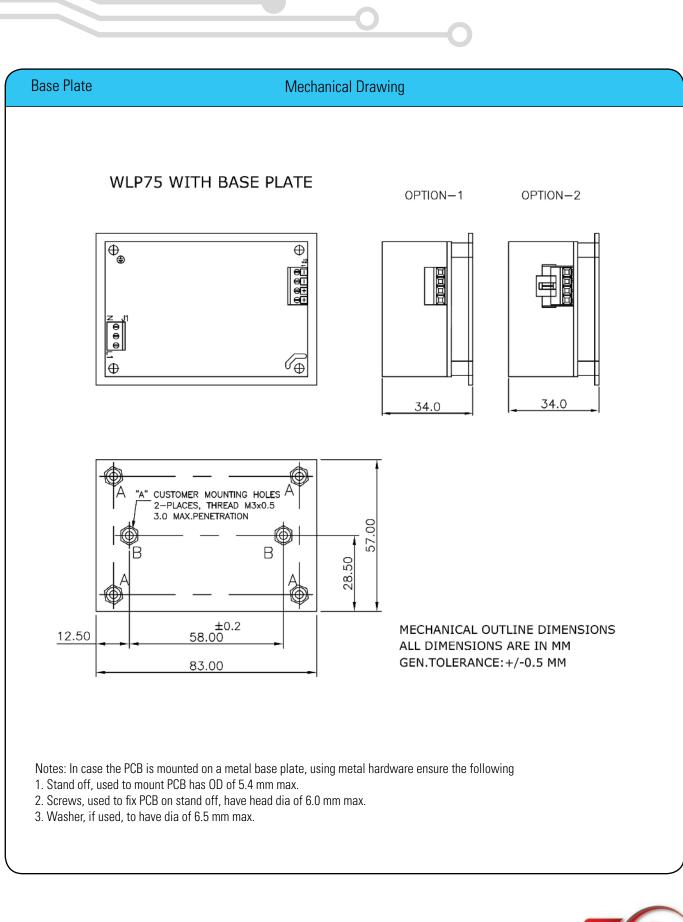
| | Mechanical Specifica | ations | |
|------------------------------------|--|----------------------|--|
| AC Input Connector (J1) Option 1 | Molex: 39357-0003 Tyco: 2-1776112-3 | (J1) Option 2 | Molex: 1722861103 (Mating conn: Molex 1722561003) (Mating conn: Molex 1722561103) (Mating conn: Molex 1722563103) |
| DC Output Connector (J2) Option 1 | Molex: 39357 -0004 Tyco: 2-1776112-4 | (J2) Option 2 | Molex: 1722861104 (Mating conn: Molex 1722561004) (Mating conn: Molex 1722561104) (Mating conn: Molex 1722563104) |
| Dimensions | 3 x 2 x 1 inches (76.2 x 50.8 x 25.4 mm) | | |
| Weight | 180gm Max. | | |
| | EMC | | |
| Parameter | Conditions/Description | Cri | teria |
| Conducted Emissions | EN55032-B, CISPR22-B, FCC PART15-B | Pass | |
| Radiated Emissions | EN 55032 A | Pass | |
| | | | ith external core (King core K5B RC -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 | | |
| Safety Standard(s) | IEC 62368-1:2018, | | |
| | EN 62368-1:2014;A11, | | |
| | UL 62368-1 and CAN/CSA C22.2 No. 6 | 62368-1:19. | |
| Safety File Number(s) | Class-I : UL: Certificate Number 20200713-E515384, Nemko: Certificate No. P20224328, CB Certificate No.: N0110826 | | |
| | Environmental | | |
| RoHS Version | LFWLP75 series meet RoHS complianc (Directive 2011 / 65 / EU) | e as per european R | loHS directive |



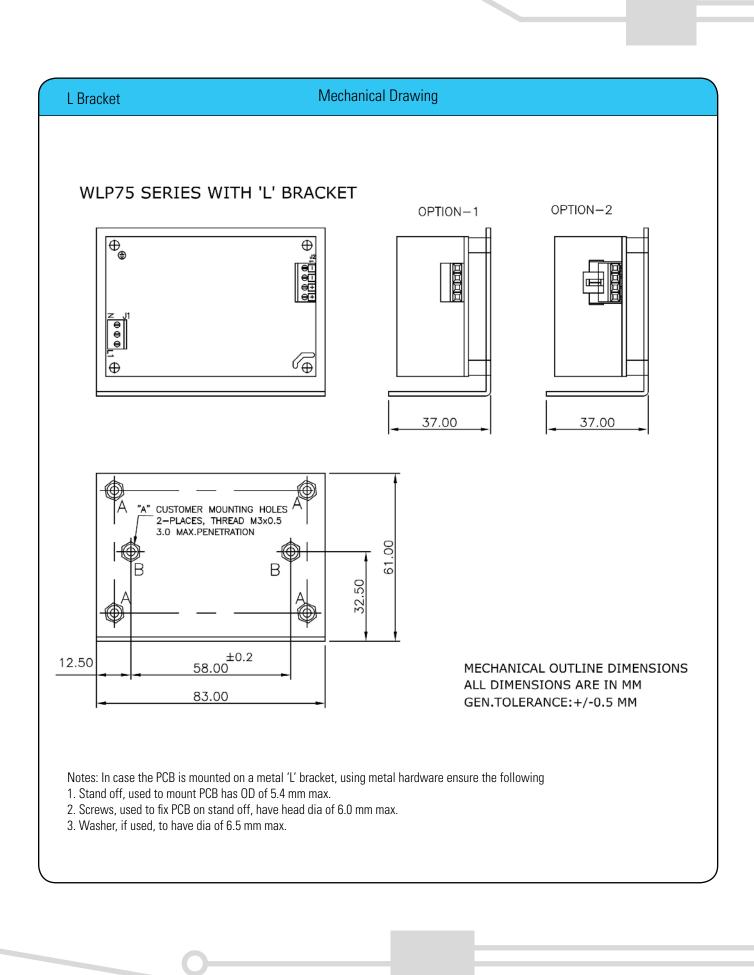


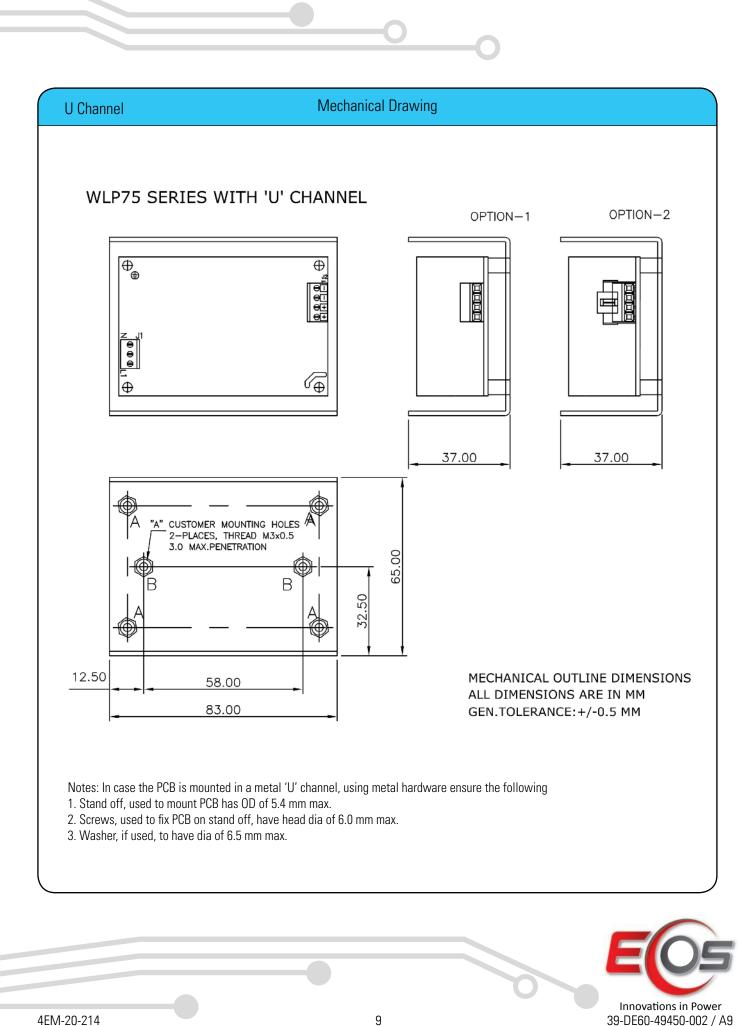




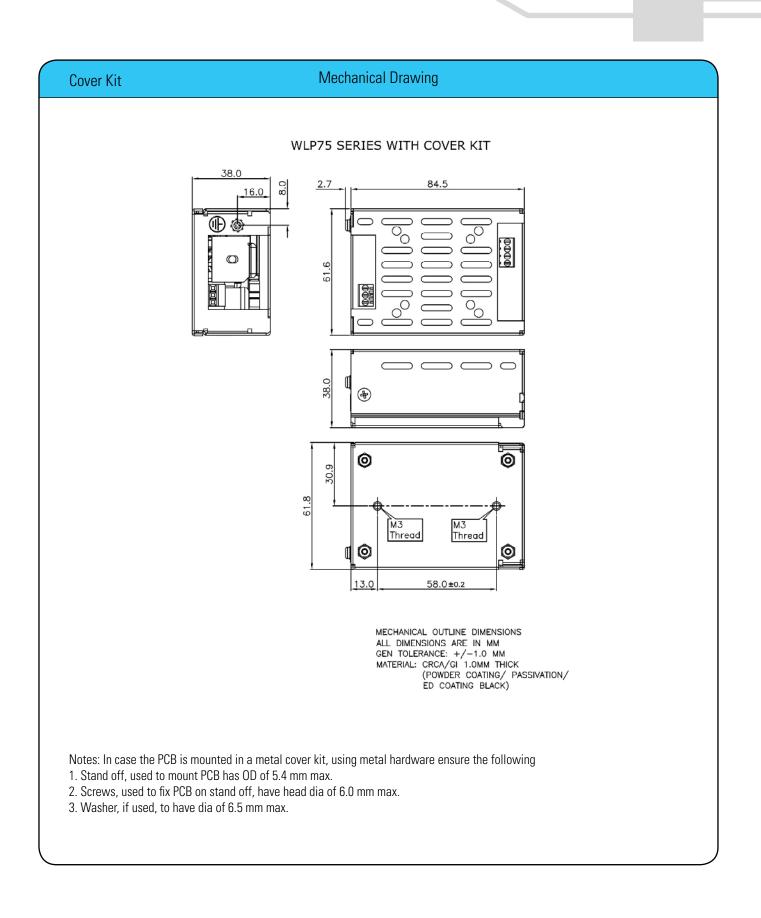








4EM-20-214



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