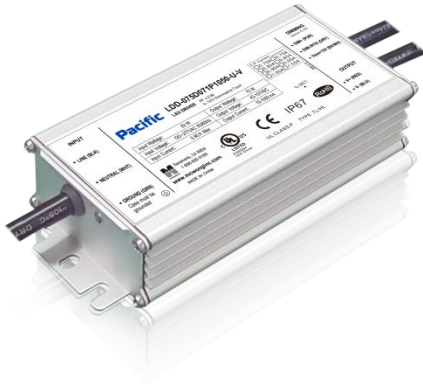


Main Features:

- Input Voltage: 90~305Vac or 127~420Vdc
- Output Wattage: Constant Voltage (C.V.) at 150W
- High Efficiency: Up to **90%**
- Dimming Function: **n/a**
- Auxiliaire Voltage : **n/a**
- Lightning Protection: Built-in Surge Protector at 10KV/4KA
- Reliability Protection: OVP, SCP, OTP
- Safety Regulation: Complies with UL8750 & EN61347
- **Type TL and HL** Program Certified from UL
- **Class P** UL standard for retrofit kit
- Waterproof Rating: IP67
- Five Year Warranty under Normal Usage Conditions



SPECIFICATION

| Model No. ⁽ⁱ⁾ | Output Voltage | Output Current Range | OVP | OTP | Case Temperature |
|---------------------------|---|----------------------|-------------------------------|----------------------|------------------|
| | C.V. Rated | I _{max} | | | |
| | (Vdc) | (mA) ⁽ⁱ⁾ | (Vdc max.) | (°C) ⁽ⁱⁱ⁾ | (Tc) |
| LDP-150-024-6300-U | 24 | 6300 | 120% V _o max, typ. | Tc ≥ 105 ± 10°C | 90C |
| LDP-150-030-5000-U | 30 | 5000 | 120% V _o max, typ. | Tc ≥ 105 ± 10°C | 90C |
| LDP-150-036-4200-U | 36 | 4200 | 120% V _o max, typ. | Tc ≥ 105 ± 10°C | 90C |
| LDP-150-048-3200-U | 48 | 3200 | 120% V _o max, typ. | Tc ≥ 105 ± 10°C | 90C |
| Note | (i) Pre-set Constant Current Value with dimming | | | | |
| | (ii) Lower the output current when Tc ≥ 105 ± 10°C; Auto Recovery When Tc ≤ 70 ± 10°C | | | | |

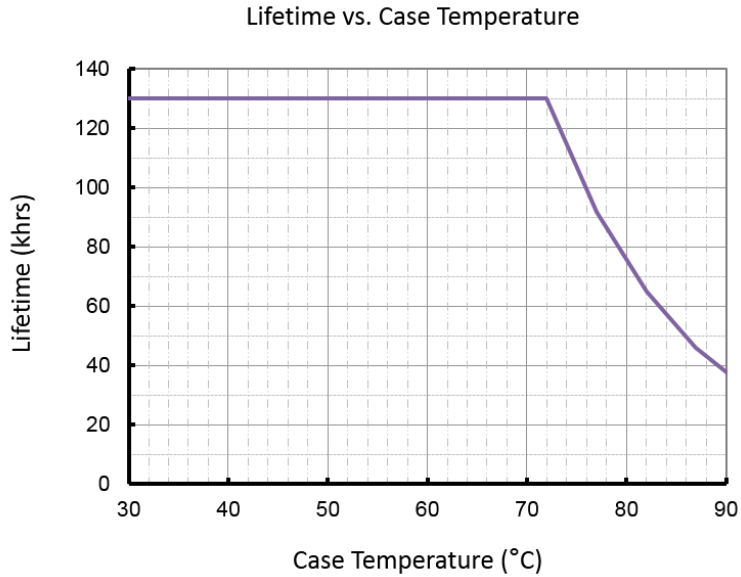
| Input Spec. | Condition Description | Min. | Normal | Max. | Units |
|---------------------------------|--|------|---------|------------------|-------|
| Input Voltage Range | Universal Input | 90 | 100-277 | 305 | VAC |
| Input Frequency Range | | 47 | 50/60 | 63 | Hz |
| Input Current | 110 VAC/220 VAC input, full load output | | | 1.40/0.75 | A |
| Power Factor | At 100 VAC/220 VAC input | | >0.9 | | |
| THD (total harmonic distortion) | @60% - 100% load | | <15 | | % |
| Inrush Current | At 230 VAC / 277 VAC input, 25°C cold start, 1.2/1.3ms duration | | | 65 / 70 | A |
| Leakage Current | 1mA max @277Vac 60Hz, UL8750, 0.75mAmax @220Vac 50Hz, IEC61347-1 | | 0.75 | 1 | mA |
| Surge Protection | Line to line 6kV, line to ground 10kV, IEC 61000-4-5 | | | | |

| Output Spec. | Condition Description | Min. | Normal | Max. | Units |
|------------------------|--|------|--------|------|-------------|
| Current Accuracy | | | ±5 | | % |
| Ripple Current | At 100%-60% Load. The result differs according to different LED load characteristic. | | | 5 | % Ip-p (Io) |
| Overshoot/Undershoot | % of lout max & LED load | | | 10 | % |
| Turn-On Delay | Measured at 110 VAC/220 VAC input and Full Load | | | 1.2 | S |
| Auxiliary Power (Vaux) | With 300mA max | -5% | 12 | +5% | Vdc |

| General Spec. | Condition Description | Min. | Normal | Max. | Units |
|-------------------------------|---|-------------------------|----------|-------|-------|
| Efficiency | Measured at full load and 220Vac in the thermal balanced condition. | | 90 | 92 | % |
| MTBF | measured at Tc= 75°C (MIL-HDBK-217F) | | ≥320,000 | | Hours |
| Lifetime | measured at Tc= 75°C | | ≥100,000 | | Hours |
| Operating/Storage Temperature | 10%RH/5%RH~100%RH (See De-rating Curve for more details) | -40/-40 | | 70/85 | °C |
| Dimension (OL/L x W x H) | OL is the overall length with mounting plates | 188/161 x 68 x 33.5 | | | mm |
| | | 7.40/6.34 x 2.68 x 1.32 | | | inch |
| Weight | Net weight without package | 1.76/0.8 | | | lb/kg |

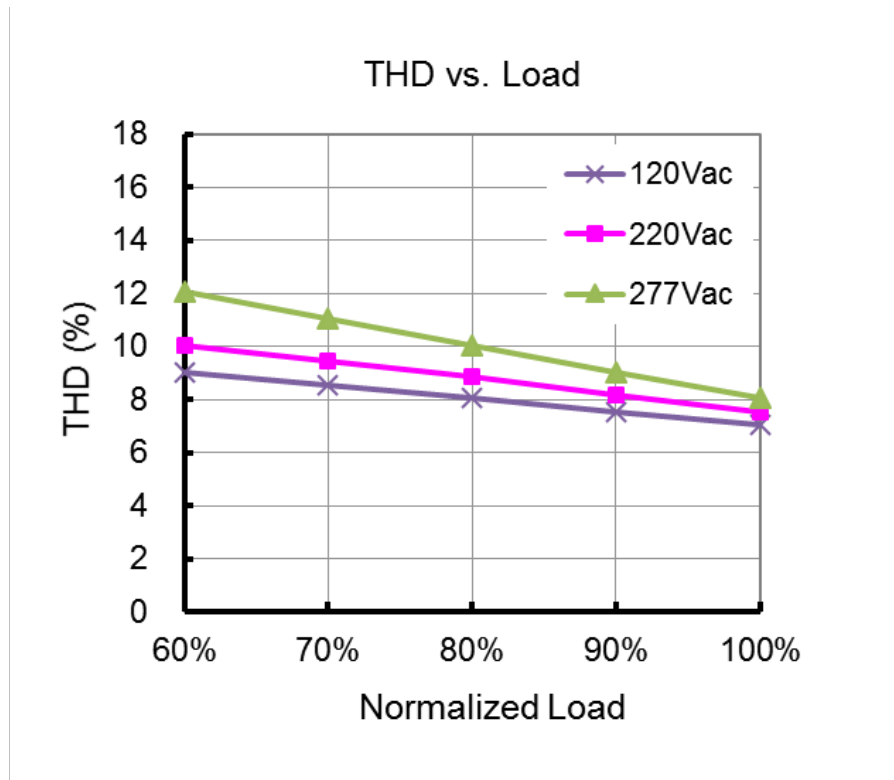
| Safety & EMC Compliance | Category | Condition Description |
|-------------------------|----------------|---|
| Safety Regulations | UL8750 | Light Emitting Diode(LED) Equipment for Use in Lighting Products |
| | UL1012 | Power Unit Other Than Class 2 |
| | IEC 61347-1 | Lamp Controlgear Part 1: General and Safety Requirements |
| | IEC 61347-2-13 | Lamp Controlgear Part 2-13: Particular Requirement for d.c. or a.c. Supplied Electronic Controlgear foe LED Modules |
| | CE | Europe: EN 61347-1, EN61347-2-13 |
| EMI Standards | IEC 55015 | Conducted emission test & Radiated emission test |
| | IEC 61000-3-2 | Harmonic current emissions; Class C (≥75% load) |
| | IEC 61000-3-3 | Voltage fluctuations & flicker |
| | FCC Part 15 | Class B |
| EMS Standards | IEC 61000-4-2 | Electrostatic discharge (ESD) |
| | IEC 61000-4-3 | Radio frequency electromagnetic field susceptibility test (RS) |
| | IEC 61000-4-4 | Electrical fast transient (EFT) |
| | IEC 61000-4-5 | Surge immunity test |
| | IEC 61000-4-6 | Conducted radio frequency disturbances test (CS) |
| | IEC 61000-4-8 | Power frequency magnetic field test |
| | IEC 61000-4-11 | Voltage dips |
| | IEC 61547 | Electromagnetic immunity requirements applies to lighting equipment |

■ Lifetime vs. Case Temperature



(End of Life: Maximum Failure Rate=10%)

■ THD vs. Load



■ Mechanical Outline (Unit: mm)

Note: Dimensions in millimeters, where 25.4 mm = 1 inch

Tolerance: ± 0.51 mm

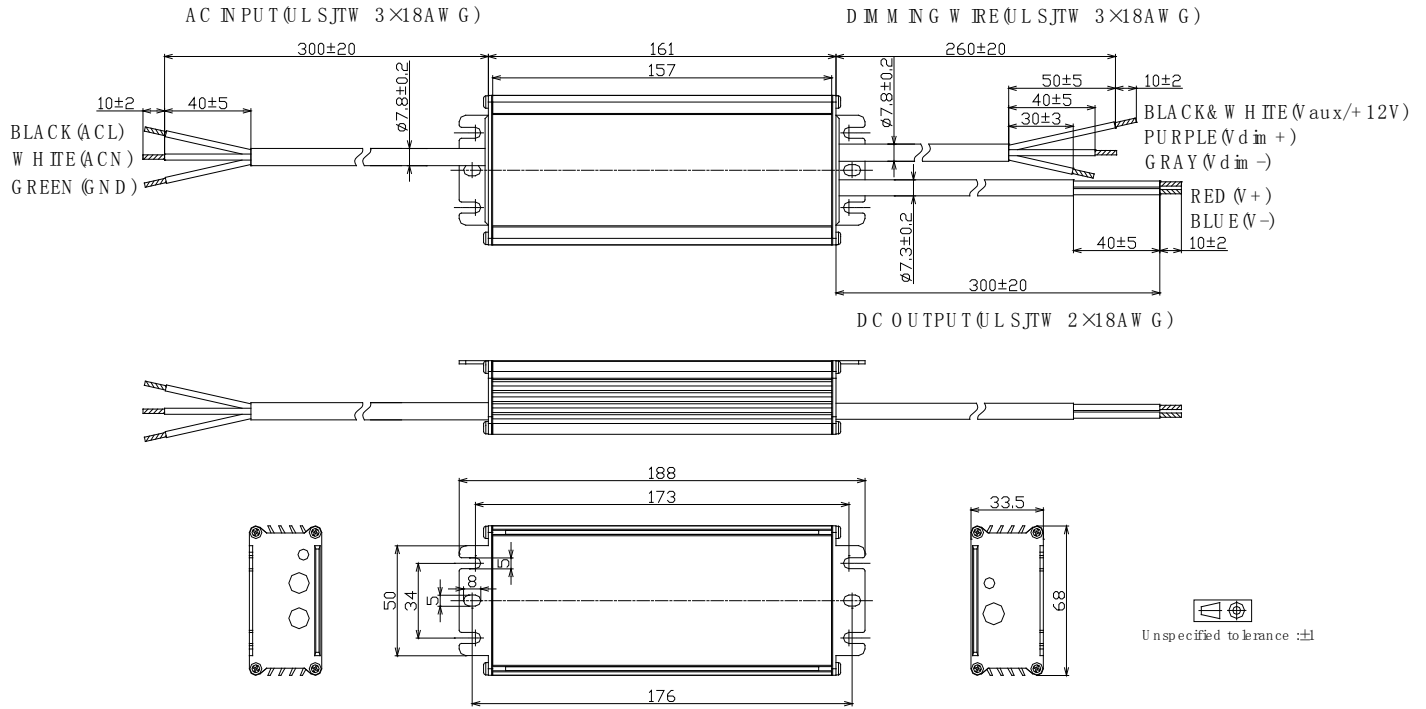


Figure 37, AR8PT

Notes: the non-dim version has no Grey/Purple wires

Safety Note: Please make sure the output cable does not connect to dimming cable or the cables of other drivers until 20 seconds after being tested because of the remained voltage in the output capacitor.

Revision

| Date | Rev. | Description of Change | | |
|-----------|------|-----------------------------|-----|-----|
| | | Item | Old | New |
| 3/16/2018 | V2a | In Draft Release | / | / |
| 5/07/2019 | V2b | Updated for non-dim version | | |
| | | | | |