

LED Dimming Driver

Product Specifications

ANZ#: Z151a, February 26, 2009

| | |
|----------------------------------------|--------------------------|
| LP1090-XX-YZ-E / LP1060-XX-YZ-E | |
| Switch-Mode LED Driver | |
| Total Power | 60 - 96 Watts |
| Input Voltages | 90-264 VAC or 100-277VAC |
| Number of Outputs | One |

SPECIAL FEATURES

- UL1310 / UL48 Class 2 recognized
- Provides 0-10V Dimming Control
- Compatible with standard ballast dimmer
- Meet IP66 standards
- Suitable for damp or dry locations
- Suitable for wet location with adequate end plate and connectors
- Built-in wiring compartments for easy installation (selected models)
- Compact, lightweight w/ aluminum case
- Active PFC to conserve power consumption

ELECTRICAL SPECIFICATIONS

| | |
|----------------------|------------------------------------------------------------------------------------|
| Input range | 90 to 264 VAC(60W) ; 100-277VAC(96W) |
| Frequency | 47 to 63 Hz |
| Power Factor | > 0.95 at full load, 115VAC |
| Crest Factor | 1.5 max. |
| Inrush current | 40.0 Amps maximum at 230VAC, cold start, 25° C |
| Input current | 1.5Amps maximum at 90VAC |
| Efficiency | 85% typical at 230VAC and maximum load |
| EMI filtering | 47CFR, Part 2, Part 15 and Cispr PUB, 22 Class A |
| Maximum power | 96W |
| Current Adjust range | 30 ~ 50% |
| Load regulation | ±3% |
| Leakage Current | 0.2mA @ 110VAC, 0.4mA @ 230VAC |
| Hold up time | Half cycle minimum at 120 VAC and 80% of rated load |
| Protection | Over-voltage, Over-current, Over-power and Short circuit protection: Auto-recovery |

ENVIRONMENTAL

| | |
|----------------------------|--------------------------------------------------------------------|
| Operating temperature: | -30 to 70 ° C (De-rating : 2% per ° C from 50°C) |
| Storage temperature: | -40 to 85 ° C |
| Humidity (Non-Condensing): | 5% to 95% |
| Cooling: | Convection |
| Vibration Frequency: | 5 to 50 Hz |
| MTBF: | >100,000 Hours at full load and 25°C ambient conditions (MIL-217F) |
| EMC : | Compliant to 47CFR, Part 2, Part15 and Cispr PUB, 22 Class B |

SAFETY

| | |
|----|-----------------------|
| UL | UL1310 / UL48 Class 2 |
| CE | Certified |

MODEL INFORMATION – SINGLE OUTPUT

| Model Numbers | Constant Voltage Mode Output | | Total output (Watts) |
|-----------------------|------------------------------|-------------------|----------------------|
| | Adjust range (Vdc) | Current range (A) | |
| LP1090-24-YZ-E | 18 ~ 24 | 1.5 ~ 4.00 | 96 |
| LP1090-19-YZ-E | 12 ~ 19 | 2.0 ~ 5.00 | 60 ~ 95 |
| LP1060-24-YZ-E | 20 ~ 24 | 1.5 ~ 2.50 | 60 |
| LP1060-12-YZ-E | 10 ~ 12 | 2.5 ~ 5.00 | 60 |

MECHANICAL DRAWING

Model Information – Single DC output

LP1090-XX-YZ-E / LP1060-XX-YZ-E

XX – DC outputs

Y – AC input side plate options, refer to drawing for more details

Z – G = Gland

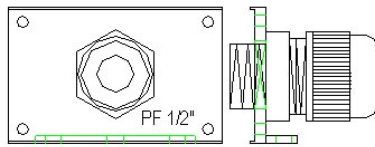
E – Aluminum enclosure length, 290mm, refer to drawing for more details

MECHANICAL DRAWING (AC INPUT VS. DC OUTPUT)

LP1090-XX-YZ-E / LP1060-XX-YZ-E

Y – AC input side plate options (Gland not included)

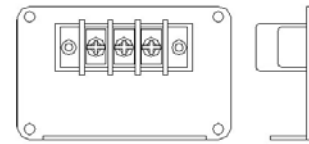
GM-PF21-G



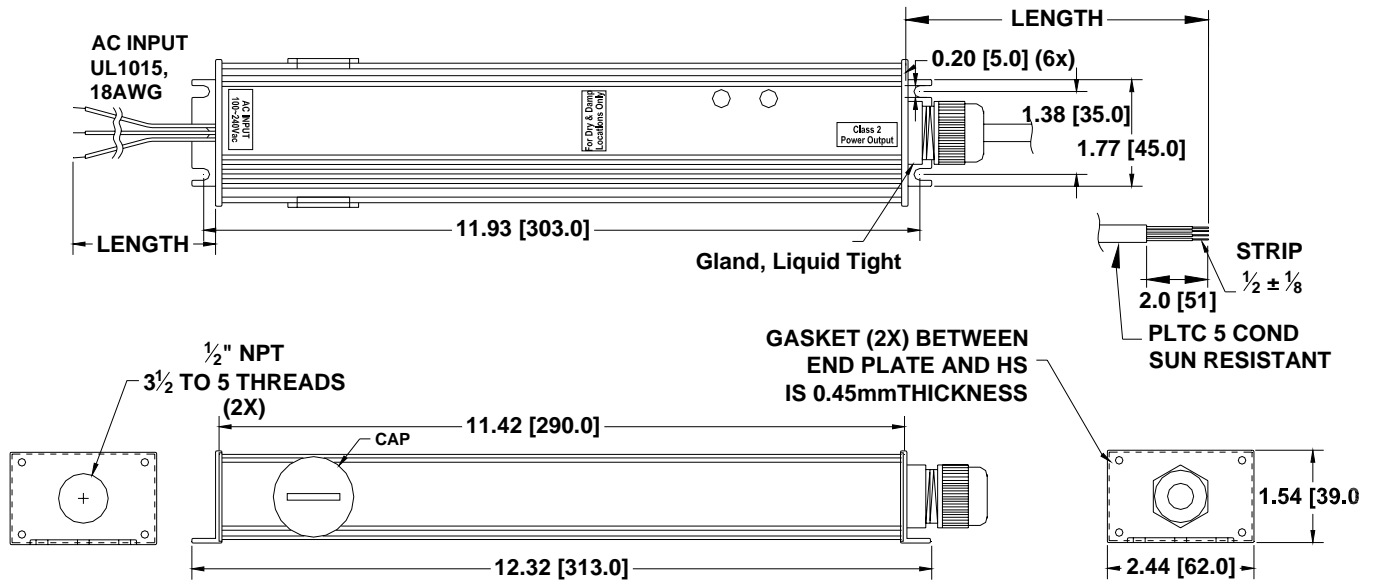
GM-PF13-G



TL-03-T



Note: End plates and liquid tight glands for wet location application can be ordered separately.



| CON | PIN | COLOR | OUTPUT | AWG | LENGTH |
|--------|-----|---------|---------|-----|-------------------------|
| AC IN | --- | BLACK | LINE | 18 | 6.0 [152] |
| | --- | WHITE | NEUTRAL | 18 | +0.5 [+13] |
| | --- | GRN/YEL | AC GND | 18 | -0.0 [-0] |
| DC OUT | --- | RED | +V | 18 | 8.0 [203] ±0.5 [±12] |
| | --- | BLACK | GND | 18 | |
| | --- | PURPLE | DIM+ | 22 | |
| --- | --- | GREEN | DIM- | 22 | |

