

LED Driver

| LP1090-XX-YZ-E Series Switch-Mode LED Driver | |
|-------------------------------------------------|------------|
| Total Power | 96 Watts |
| Input Voltages | 100-277VAC |
| Number of Outputs | One |

Product Specifications

ANZ#: Z097G, August 23, 2011

SPECIAL FEATURES

- UL1310 / UL879 Class 2 recognized
- Various DC output available, max 96-Watts
- Meet IP65 standards (refer to detail)
- Suitable for damp or dry locations
- Suitable for wet location with adequate end plate and connectors
- Designed for outdoor or indoor applications
- Built-in wiring compartments for easy installation (selected models)
- Compact, lightweight w/ aluminum case
- Active PFC to conserve power consumption
- **ELV (Trailing-Edge) dimmable - Optional**

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

ELECTRICAL SPECIFICATIONS

| | |
|----------------------|------------------------------------------------------------------------------------|
| Input range | Full range 100-277VAC / 1.5A~ 0.47A |
| Frequency | 47 to 63 Hz |
| PF & THD | > 0.92 at full load, 115VAC; < 20% full load, 230VAC |
| 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 | 0.4mA @ 110VAC, 0.75mA @ 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 |

SAFETY

| | |
|----|-------------------------------------------|
| UL | UL1310 / UL879 / UL8750 Class 2 certified |
| CE | Certified |

MODEL INFORMATION – SINGLE OUTPUT

| Model Numbers | Constant Voltage Mode Output | | Constant Current Mode Output | | Total output (Watts) |
|----------------|------------------------------|-------------------|------------------------------|-------------------|----------------------|
| | Adjust range (Vdc) | Current range (A) | Voltage range (Vdc) | Adjust range (A) | |
| LP1090-48-YZ-E | 36 ~ 52, ± 5% | 1.0 ~ 2.00 | 24 ~ 48 | 1.00 ~ 2.00, ± 5% | 96 (non-UL) |
| LP1090-36-YZ-E | 24 ~ 36, ± 5% | 1.3 ~ 2.66 | 18 ~ 36 | 1.50 ~ 2.66, ± 5% | 96 |
| LP1090-24-YZ-E | 18 ~ 24, ± 5% | 1.5 ~ 4.00 | 12 ~ 24 | 2.50 ~ 4.00, ± 5% | 96 |
| LP1090-19-YZ-E | 12 ~ 19, ± 5% | 2.0 ~ 5.00 | 10 ~ 19 | 3.00 ~ 5.00, ± 5% | 95 |

MECHANICAL DRAWING

Model Information – Single DC output

LP1090-XX-YZ-E

XX – DC outputs

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

Z – DC output side plate options, refer to drawing for more details

E – Aluminum enclosure length, 170, 240, 290mm, refer to drawing for more details

Housing “240”, “290” – The wiring compartment is accessed through side plate only.

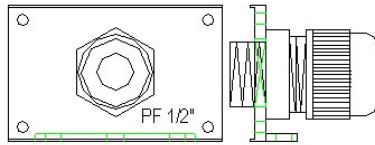
Housing “249”, “299” – The wiring compartment can be accessed from the top plate.

MECHANICAL DRAWING (AC INPUT VS. DC OUTPUT)

LP1090-XX-YZ-E

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

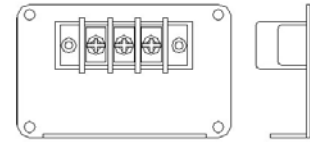
GM-PF21-G



GM-PF13-G

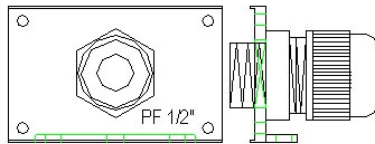


TL-03-T



Z – DC output side plate options (Gland not included)

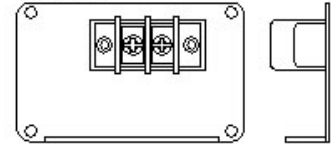
GM-PF21-G



GM-PF13-G



TL-02-T



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

