

# LP1090 - XX-YZ-E Series

96 Watts | 100 - 277VAC

## PRODUCT FEATURE

- UL1310/UL879 recognized:UL8750 Listed
- 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 (C/C model only) dimmable – Optional
- 1-10V (C/V model only) dimmable – Optional



## 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 CURRENT ADJUST RANGE | : | 96W<br>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 |

## ENVIRONMENTAL

|                           |   |   |
|---------------------------|---|---|
| OPERATING TEMPERATURE     | : | -30 to 50°C<br>(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 50Hz   |
| MTBF                      | : | >100,00 Hours at full load and 25°C ambient conditions (MIL-217F) |
| EMC                       | : | Compliant to 47CFR, Part 2, Part15 and Cispr PUB, 22 Class B      |
| ACOUSTIC NOISE            | : | Less than 24db (20-20K Hz)  |

## SAFETY

|    |  |
|----|--|
| UL | UL1310,/ UL879 Class 2 recognized<br>UL8750 Class listed |
| CE | Certified  |

## WARRANTY

- See [Limited Warranty Policy](#) for more additional information.

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## MODEL INFORMATION - SINGLE OUTPUT

| MODEL NUMBER   | 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, $\pm 5\%$           | 1.0 ~ 2.00        | 24 ~ 52                      | 1.00 ~ 2.00, $\pm 5\%$ | 96                   |
| LP1090-36-YZ-E | 24 ~ 36, $\pm 5\%$           | 1.3 ~ 2.66        | 18 ~ 36                      | 1.50 ~ 2.66, $\pm 5\%$ | 96                   |
| LP1090-24-YZ-E | 18 ~ 24, $\pm 5\%$           | 1.5 ~ 4.00        | 12 ~ 24                      | 2.50 ~ 4.00, $\pm 5\%$ | 96                   |
| LP1090-19-YZ-E | 12 ~ 19, $\pm 5\%$           | 2.0 ~ 5.00        | 10 ~ 19                      | 3.00 ~ 5.00, $\pm 5\%$ | 96                   |

## 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

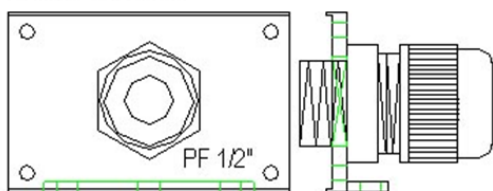
Housing "240", "290" - The wiring compartment is accessed through side plate only.

Housing "249", "298", "299" - The wiring compartment can be accessed from the top plate.

### LP1090-XX-YZ-E

**Y** - AC input side plate options (Gland not included)

#### GM-PF21-G

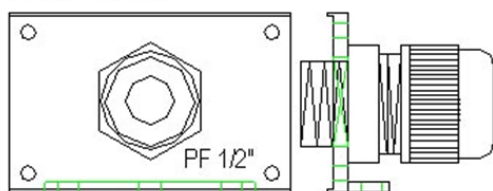


#### GM-PF13-G



**Z** - DC output side plate options (Gland not included)

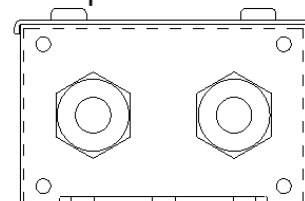
#### GM-PF21-G



#### GM-PF13-G



#### DV plate



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

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