



**Driving Your Vision**

A division of Endicott Research Group, Inc.

**GEN12W120V700MA-FP**

**Constant Current, 12W, 700mA,  
Dimmable**

2601 Wayne Street, Endicott, NY 13760 • www.ERGLighting.com • 1-800-215-5866



## Description

|  |  |
|--|--|
| <b>Driver Type:</b> Constant Current                   | <b>Total Output Power:</b> 12W                         |
| <b>Input Voltage Range:</b> 120~Vac +/- 10%            | <b>Selectable Outputs:</b> 1                           |
| <b>Dimming:</b> TRIAC                                  | <b>Warranty:</b> 5 years                               |
| <b>Certifications:</b> UL8750; UL879;<br>IP20 dry/damp | <b>Protections:</b> voltage; current;<br>short circuit |

## Applications

Downlight • Flush Mount • Wall Pack

## Performance Specifications

| Model Number       | Max Output Power | Output Current | Output Voltage | Efficiency | Remote Mounting Distance (#18AWG) | Class 2 |        |
|--------------------|------------------|----------------|----------------|------------|-----------------------------------|---------|--------|
|                    |                  |                |                |            |                                   | US      | Canada |
| GEN12W120V700MA-FP | 12W              | 700mA          | 5 - 17V        | 77%        | 54 ft.                            | ✓       | ✓      |

| ELECTRICAL SPECIFICATIONS:  |   | ENVIRONMENTAL SPECIFICATIONS/<br>SAFETY AND EMC COMPLIANCE: |   |
|-----------------------------|---|---|---|
| <b>Input Voltage Range:</b> | 120Vac ± 10%                                  | <b>Operating Temperature:</b>                               | -30 to 60°C                                     |
| <b>Frequency:</b>           | 60Hz  | <b>Storage Temperature:</b>                                 | -40 to 85°C                                     |
| <b>Power Factor:</b>        | >0.9 @full load                               | <b>Humidity:</b>  | 5% to 95%                                       |
| <b>Inrush Current:</b>      | 20A @120V                                     | <b>MTBF:</b>  | 570,000 hours at 40°C ambient (~70°C Case temp) |
| <b>Max Input Current:</b>   | 0.15A @120V                                   | <b>Maximum Case Temperature:</b>                            | 90°C  |
| <b>THD:</b>                 | <20%  | <b>UL/cUL</b>   | UL 8750 and UL 879                              |
| <b>Protection:</b>          | Over Voltage, Over Current, and Short Circuit | <b>FCC, 47CFR Part 15</b>                                   | Class B Consumer Limit                          |
| <b>Withstand Voltage:</b>   | I/P – O/P 2k Vac                              | <b>EN61000-3-2</b>  |   |

| PHYSICAL DIMENSIONS: |                                       |
|----------------------|---------------------------------------|
| Length (L):          | 4.86"                                 |
| Width (W):           | 1.30"                                 |
| Height (H):          | 0.79"                                 |
| Mounting (M):        | 4.57"                                 |
| Weight:              | 0.15 kg                               |
| WIRE SPECIFICATIONS: |                                       |
| Input:               | 12", UL 1316 #18AWG (Black and White) |
| Output:              | 12", UL 1316 #18AWG (Red and Blue)    |

| WIRING DIAGRAM        | LIFETIME vs CASE TEMPERATURE:  |                       |                 |    |     |    |     |    |     |    |    |    |    |    |    |    |    |
|-----------------------|--|-----------------------|-----------------|----|-----|----|-----|----|-----|----|----|----|----|----|----|----|----|
|                       | <table border="1"> <caption>Lifetime VS Case Temperature Data</caption> <thead> <tr> <th>Case Temperature (°C)</th> <th>Lifetime (kHrs)</th> </tr> </thead> <tbody> <tr><td>30</td><td>100</td></tr> <tr><td>40</td><td>100</td></tr> <tr><td>50</td><td>100</td></tr> <tr><td>60</td><td>90</td></tr> <tr><td>70</td><td>40</td></tr> <tr><td>80</td><td>20</td></tr> <tr><td>90</td><td>10</td></tr> </tbody> </table> | Case Temperature (°C) | Lifetime (kHrs) | 30 | 100 | 40 | 100 | 50 | 100 | 60 | 90 | 70 | 40 | 80 | 20 | 90 | 10 |
| Case Temperature (°C) | Lifetime (kHrs)  |                       |                 |    |     |    |     |    |     |    |    |    |    |    |    |    |    |
| 30                    | 100  |                       |                 |    |     |    |     |    |     |    |    |    |    |    |    |    |    |
| 40                    | 100  |                       |                 |    |     |    |     |    |     |    |    |    |    |    |    |    |    |
| 50                    | 100  |                       |                 |    |     |    |     |    |     |    |    |    |    |    |    |    |    |
| 60                    | 90   |                       |                 |    |     |    |     |    |     |    |    |    |    |    |    |    |    |
| 70                    | 40   |                       |                 |    |     |    |     |    |     |    |    |    |    |    |    |    |    |
| 80                    | 20   |                       |                 |    |     |    |     |    |     |    |    |    |    |    |    |    |    |
| 90                    | 10   |                       |                 |    |     |    |     |    |     |    |    |    |    |    |    |    |    |