



Driving Your Vision

A division of Endicott Research Group, Inc.

GEN100PGWUV1.78A-D12V

**Constant Current, 100W, 590-1780mA,
Programmable, Dimmable**

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

Product Description

| | |
|--|--|
| Driver Type: Constant Current | Total Output Power: 100W |
| Input Voltage Range: 120~277Vac +/- 10% | Selectable Outputs: Wireless |
| Dimming: 0 - 10V | Warranty: 5 years |
| Certifications: UL8750 | Protections: voltage; current; short circuit, temperature |
| Dimming Range: <1% - 100% | Aux Output: 12 Vdc at 200mA |

Applications

Performance Specifications

LED Tube • Light Panels • Linear Fixture

| Model Number | Max Output Power | Output Current | Output Voltage | Efficiency | Remote Mounting Distance (#18AWG) | Class 2 | |
|-----------------------|------------------|----------------|----------------|------------|-----------------------------------|---------|--------|
| | | | | | | US | Canada |
| GEN100PGWUV1.78A-D12V | 100W | 590-1780mA | 28 - 56V | 87% | 21 ft. | √ | √ |

| ELECTRICAL SPECIFICATIONS: | | ENVIRONMENTAL SPECIFICATIONS/ SAFETY AND EMC COMPLIANCE: | |
|-----------------------------|---|---|-------------------------|
| Input Voltage Range: | 120~277Vac ± 10% | Operating Temperature: | -20 to 50°C |
| Frequency: | 50/60Hz | Storage Temperature: | -40 to 85°C |
| Power Factor: | >0.9 @full load | Humidity: | 5% to 95% |
| Inrush Current: | 30A @120V | MTBF: | 173,000 hours |
| Max Input Current: | 1.07A @120V 0.47A @277V | Maximum Case Temperature: | 90°C |
| THD: | <20% | UL/cUL | UL 8750 |
| Protection: | Over Voltage, Over Current, Short Circuit, and Over Temperature | FCC, 47CFR Part 15 | Class B Consumer Limit |
| | | CE | EN61347-1, EN61347-2-13 |
| Withstand Voltage: | I/P – O/P 2,800Vdc, 2mA | EN61000-3-2 | HCE Class C |



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| PHYSICAL DIMENSIONS: | |
|----------------------|--------|
| Length (L): | 11.46" |
| Width (W): | 1.70" |
| Height (H): | 1.14" |
| Mounting (M): | 10.79" |
| Weight: | 0.6kg |

| WIRE SPECIFICATIONS: | |
|----------------------|----------------|
| Input: | Terminal block |
| Output: | Terminal block |
| Dimming: | Terminal block |

Unit: mm

| WIRING DIAGRAM | LIFETIME vs CASE TEMPERATURE: | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------------------|-----------------|----|-----|----|-----|----|-----|----|-----|----|----|----|----|----|----|----|----|-----|----|
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Input</p> <p>Ground <input type="checkbox"/></p> <p>Neutral <input type="checkbox"/></p> <p>Live <input type="checkbox"/></p> </div> <div style="width: 45%;"> <p>Output</p> <p>VO (-): LED load, negative (-)</p> <p>VO (+): LED load, positive (+)</p> <p>BTIN: For bluetooth module connection</p> <p>Aux 12Vdc (+): Auxiliary 12Vdc output, positive (+)</p> <p>RTN: Dimming and auxiliary output, negative (-)</p> <p>Dimming (+): Dimming, positive (+)</p> <p>NFC ANTENNA <input type="checkbox"/></p> <p>NFC <input type="checkbox"/></p> </div> </div> | <p style="text-align: center;">Lifetime vs Case Temperature</p> <table border="1"> <caption>Approximate data points from Lifetime vs Case Temperature graph</caption> <thead> <tr> <th>Case Temperature (°C)</th> <th>Lifetime (khrs)</th> </tr> </thead> <tbody> <tr><td>30</td><td>120</td></tr> <tr><td>40</td><td>120</td></tr> <tr><td>45</td><td>120</td></tr> <tr><td>50</td><td>115</td></tr> <tr><td>60</td><td>90</td></tr> <tr><td>70</td><td>65</td></tr> <tr><td>80</td><td>40</td></tr> <tr><td>90</td><td>20</td></tr> <tr><td>100</td><td>10</td></tr> </tbody> </table> | Case Temperature (°C) | Lifetime (khrs) | 30 | 120 | 40 | 120 | 45 | 120 | 50 | 115 | 60 | 90 | 70 | 65 | 80 | 40 | 90 | 20 | 100 | 10 |
| Case Temperature (°C) | Lifetime (khrs) | | | | | | | | | | | | | | | | | | | | |
| 30 | 120 | | | | | | | | | | | | | | | | | | | | |
| 40 | 120 | | | | | | | | | | | | | | | | | | | | |
| 45 | 120 | | | | | | | | | | | | | | | | | | | | |
| 50 | 115 | | | | | | | | | | | | | | | | | | | | |
| 60 | 90 | | | | | | | | | | | | | | | | | | | | |
| 70 | 65 | | | | | | | | | | | | | | | | | | | | |
| 80 | 40 | | | | | | | | | | | | | | | | | | | | |
| 90 | 20 | | | | | | | | | | | | | | | | | | | | |
| 100 | 10 | | | | | | | | | | | | | | | | | | | | |

