

Model: GP-CVP040N Series (40W/120V)

40W Constant Voltage LED Driver with Triac Dimming

Features

- AC phase-cut dimming
- Input Range from 108VAC to 132VAC.
- Constant Voltage design. (C.V mode)
- Work with leading edge and trailing edge TRIAC dimmers.
- Fully Potted suitable for dry and damp location applications.
- Protections: Over current / Short Circuit /Over Voltage/Over Temperature.
- IP65 Design For Indoor or Outdoor Installations.
- Appropriate for LED strips appliance.
- 2 Years Warranty.
- RoHS Compliant.

Approvals



Size

107.5 * 43.5 * 32 mm (L*W*H)

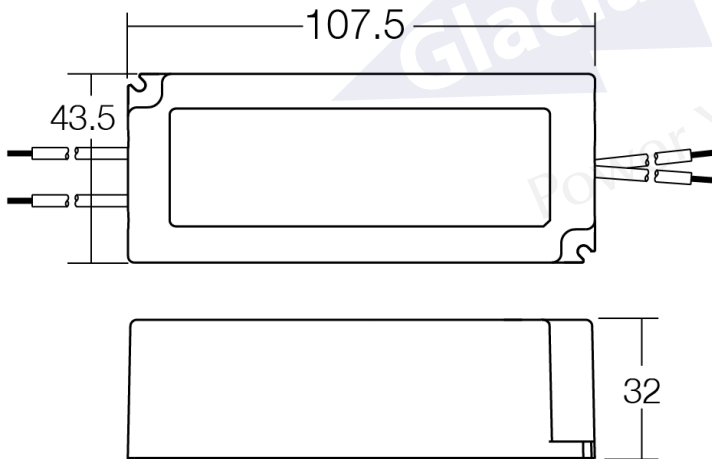


Specifications

| Model No. | | GP-CVP040N-12VL-P02 | GP-CVP040N-24VL-P02 |
|--------------|------------------------------|--|---------------------|
| Output | Voltage Range | 12VDC | 24VDC |
| | Ripple & Noise (Max.) note.2 | 0.5Vp-p | 0.6Vp-p |
| | Voltage Tolerance | ± 5% | ± 5% |
| | dimming Range | 5%~100% | 5%~100% |
| | Rated Current | 3.4A | 1.7A |
| | Rated Power | 40.8W | 40.8W |
| | Efficiency (Typ.) note.1 | 82% | 84% |
| | Set up Time (Max) | 0.5S / 120VAC at full load | |
| Input | Rated Voltage | 120VAC | |
| | Voltage Range | 108~132VAC | |
| | Frequency | 50/60 Hz | |
| | AC Current (Max.) | 0.76A at 120VAC | |
| | Power Factor | > 0.5 at 120Vac with full load. | |
| | Inrush Current (Typ.) | Cold Start 55A at 120VAC | |
| | Leakage Current (Typ.) | <1mA / 120VAC | |
| Protections | Over Voltage | 110 % - 150% Output voltage limiting, auto-recovery | |
| | Over Current | 110% - 150% Constant current limiting, auto-recovery | |
| | Over Temperature | 110°C - 120°C Temperature limiting, auto-recovery | |
| | Short Circuit | Hiccup mode, recovers automatically after fault condition is removed | |
| Environment | Operation Temp. | -20°C ~50°C (Refer to output load derating curve) | |
| | Operation Humidity | 20% ~ 90% RH non-condensing. | |
| | Storage Temp. | -20 ~ +80°C | |
| | Storage Humidity | 10% ~ 90% RH | |
| Safety & EMC | Safety Standards | UL8750 | |
| | Withstand Voltage | I/P - O/P : 1.25K VAC | |
| | Isolation Resistance | I/P-O/P : 100M ohms / 500VDC at 25°C | |
| | EMC Standards note.3 | meet FCC PART15 CLASSB | |
| Others | MTBF | 100K hours min. @Ta=25°C | |
| | Dimension (L x W x H) | 107.5 * 43.5 * 32 mm; 240g/pcs | |

| | |
|------|--|
| Note | <ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 120V/60HZ AC input, rated load and 25°C ambient temperature. 2. Ripple & Noise are measured at 20MHZ bandwidth oscilloscope and with 0.1uf & 47uf parallel capacitor at 100% duty output 3. The power supply is considered a component which will be installed a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. |
|------|--|

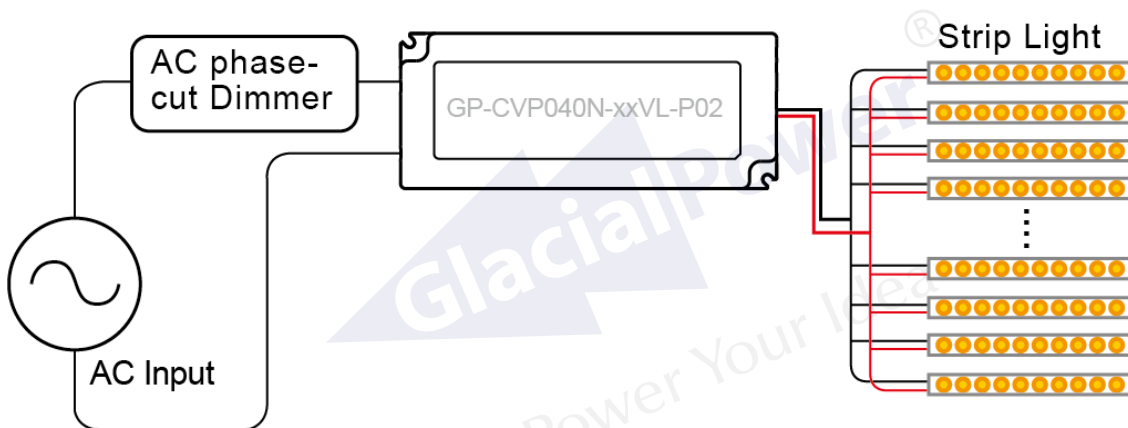
Mechanical Specification



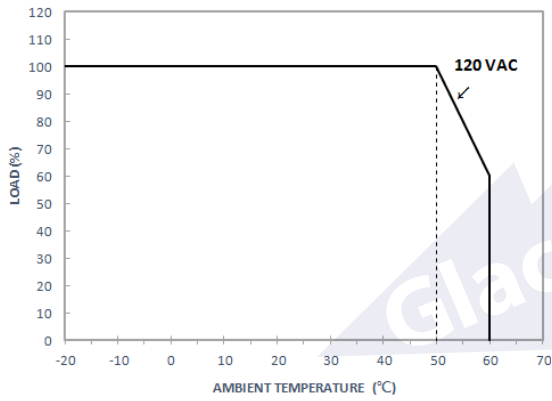
Dimmer Recommended

| Brand | Parts NO. |
|--------|----------------------|
| LUTRON | SKYLARK SELV-300P-AL |
| LUTRON | Diva DVELV--300P-AL |
| LUTRON | Diva DV-603 |
| LUTRON | Dvia DVCL-153P |
| LUTRON | SKYLARK S-300P |

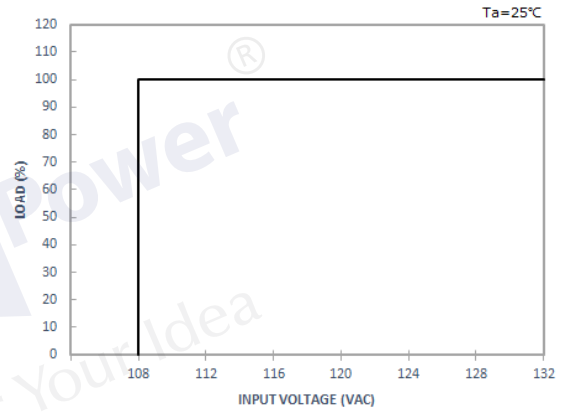
Wiring Diagram



Derating Curve



Static Characteristics



GlacialPower®
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