

Model: GP-LDxxxx-12/GP-LDxxxx-24 Series (DC-DC LED Driver)

Features

- For High Brightness Light-Emitting Diode Products.
- DC 12V/24V Input.
- Fully Isolated Plastic Case with Stripped.
- Built-in Constant Current Limiting Design.
- Operation from -10°C ~40°C Full Load.
- Protections: OVP / OLP/ SCP.

Approvals



Size

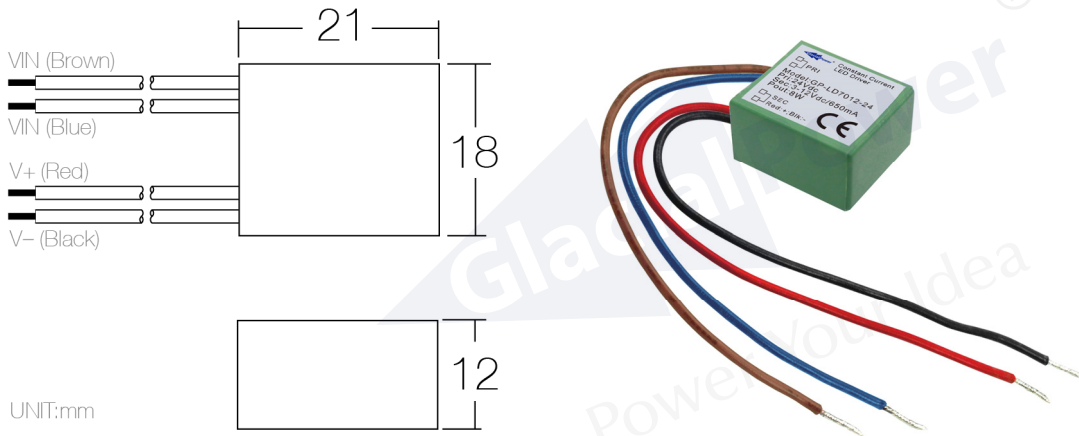
18 x 21 x 12 mm (L x W x H)



Specifications

| Model No. | | GP-LD3510-12 | GP-LD7012-12 | GP-LD3508-24 | GP-LD3520-24 | GP-LD7012-24 |
|--------------|---|--|----------------|----------------|----------------|----------------|
| Output | LED Operation Voltage (Note 2) | 3-10V | 3-12V | 3-8V | 3-20V | 3-12V |
| | Rated Current Range | 350mA ± 10% | 650mA ± 10% | 350mA ± 10% | 350mA ± 10% | 650mA ± 10% |
| | Rated Max. Power | 2W | 8W | 2W | 5W | 8W |
| | Efficiency (Typ.) | >80% | | | | |
| | Rise Time | >30ms at full load | | | | |
| Input | Voltage Range (Note 2) | DC 10.5 ~13.5V | | | DC 22~26V | |
| | DC Current | 0.25A at 12VDC | 0.75A at 12VDC | 0.15A at 24VDC | 0.26A at 24VDC | 0.42A at 24VDC |
| Protections | Over Load | 100~135% rated output power recovers automatically after fault condition has been removed. | | | | |
| | Short Circuit | Type: Hiccup mode, Recovers automatically after fault condition is removed. | | | | |
| | Over Voltage | 105-120% rated output voltage. | | | | |
| Environment | Operation Temp. | -10°C~+40°C full load. | | | | |
| | Operating Humidity | 20% ~ 95% RH non-condensing. | | | | |
| | Storage Temp | -20 ~ +80°C | | | | |
| | Storage Humidity | 10% ~ 95% RH | | | | |
| | Vibration | 10 ~ 500 Hz, 2G 10 min. / 1 cycle, period for 60 min. each along X, Y, Z axes. | | | | |
| Safety & EMC | Safety Standards | meet EN61347-1, EN61347-2-13 | | | | |
| | EMI Conduction & Radiation | meet EN55015 | | | | |
| | EMS Immunity | meet EN61547, EN61000-4-2, 3, 4, 5, 6, 8, 11 | | | | |
| Others | MTBF | 400K hours min.MIL-HDBK-217F(25°C) | | | | |
| | Dimension(L x W x H) | 18 x 21 x 12 mm; 12.2g/pcs | | | | |
| Note | 1. All specifications not specially mentioned are measured at 12VDC or 24VDC and 25°C ambient temperature. 2. The input voltage should be greater than the output voltage by 1.5V, otherwise, it may not be able to achieve the desired constant current. 3. The power supply is considered a component which will be installed final equipment. The final equipment must be re-confirmed that it still meets EMC directives. | | | | | |

Mechanical Specification (Output connector with stripped type)



Configuration arrays when using Hi power LEDs

GP-LD3510-12 / GP-LD3508-24

GP-LD3520-24

