

CLASS 2 Type

12DVC SERIES DIMENSIONS

- High Efficiency (Up to 87%)
- Constant Voltage Output
- 5 years warranty



CB CE ENEC cULus IP67

Description

12vdc series 60w/120w constant-voltage outdoor LED driver that operates from 90-305Vac input with excellent power factor. It is created for LED strip, LED module, LED landscape light. The high efficiency of these drivers and compact metal case enables them to run cooler, significantly improving reliability and extending product life. To ensure trouble-free operation, protection is provided against input surge, output over voltage, over current, short circuit, and over temperature.

Models

| Model Number | Output Voltage | Input Voltage | Output Current Range | Max. Output Power | Typical Efficiency (2) | Power Factor |
|--------------|----------------|---------------|----------------------|-------------------|------------------------|--------------|
| | | | | | | 110Vac |
| G2G-120W-12V | 12 Vdc | 90-305 Vac | 0 ~ 5A | 120 W | 87% | 0.97 |

Input Specifications

| Parameter | Min. | Typ. | Max. | Note |
|-----------------|-------|------|--------|---------------------------|
| Input Voltage | 90Vac | - | 277Vac | |
| Input Frequency | 47 Hz | - | 60 Hz | |
| PF | 0.95 | - | - | At 100-277 Vac, 100% Load |
| THD | - | - | 20% | |

General Specifications

| Parameter | Min. | Typ. | Max. | Notes |
|---|--------------|------|--------|---|
| Efficiency at 220 Vac input: $V_o = 12V$ | 85% | 88% | - | Measured at full load and steady-state temperature in 25°C ambient; (Efficiency will be about 1.0% lower if measured immediately after startup.) |
| No Load Power Dissipation | - | - | 3 W | |
| Working temperature | -30 °C | | 50 °C | |
| Operating Case Temperature for Safety Tc_s | -35 °C | - | +85 °C | |
| Operating Case Temperature for Warranty Tc_w | -40 °C | - | +60 °C | |
| Storage Temperature | -40 °C | - | +85 °C | Humidity: 5%RH to 100%RH |
| Dimensions Millimeters (L × W × H) | 220*70*39 mm | | | |

Protection Functions

| Parameter | Min. | Typ. | Max. | Notes |
|-----------------------------|---|------|------|---|
| Over Current Protection | 110% | 135% | 200% | Hiccup mode. The power supply shall be self-recovery when the fault condition is removed. |
| Over Temperature Protection | Auto Recovery, returning to normal after over temperature is removed. | | | |
| Short Circuit Protection | No damage will occur when any output is short circuited. The output shall return to normal when the fault condition is removed. | | | |
| Over Voltage Protection | Limits output voltage at no load and in case the normal voltage limit fails. | | | |

DIMENSIONS

