

LED Power Supply



Outdoor Dimming Driver



GED50MCC/CR1P600

GED25MCC/CR1P350

Outdoor Dimming Driver

GED50MCC/CR1P600; GED25MCC/CR1P350

Description: DALI/0~10V/current Programmable/Power Bus Class1 PSU

Input Voltage: 120-277V

Input Frequency: 50Hz/60Hz

Power BUS: Voltage 16Vdc max; current 95mA max

Surge Protection: 10kV/5kA

ROHS Compliant: Yes



| SKU | Input Voltage (V) | | PF Min. | THD | Output Power Range (W) | | Output Voltage (V) | | Programmable Current Range (A) ± 5% | | Max Output Current Ripple 15% and 120Hz @25°C (Pk-Avg.) | Dimming 0-10V 10-100% | Warranty Life 10 Years @ Ta Max |
|-----|-------------------|-----------|------------------|-------|------------------------|------|--------------------|-------|-------------------------------------|------|--|--------------------------|------------------------------------|
| | Nom | Frequency | | | Min | Max | Min | Max | Min | Max | | | |
| 50W | 120/277 | 50/60HZ | ≥0.9 @ Full Load | ≤=20% | 20 | 50.0 | 82.5 | 165.0 | 0.2 | 0.6 | | | 10 Years @ Ta Max |
| 25W | 120/277 | 50/60HZ | ≥0.9 @ Full Load | ≤=20% | 10 | 25.0 | 72.0 | 165.0 | 0.15 | 0.35 | | | 10 Years @ Ta Max |

Product Features

Physical

- Unit must be installed within an electrical enclosure.
- Enclosure wiring must be rated to 600V & 105°C or higher.

Performance

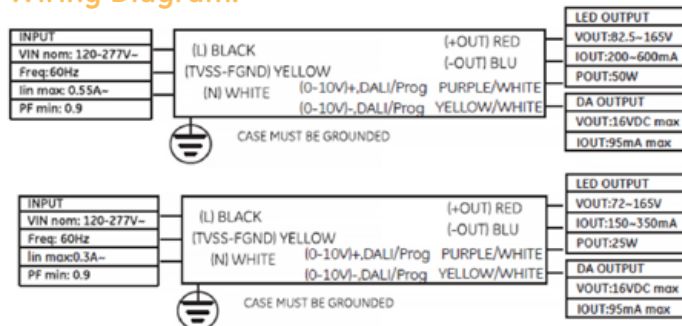
- The unit is classified as Class 1 as stipulated in UL8750.
- The unit is classified as Class P as stipulated in UL8750.
- Dimming circuit is classified as Class 2 as stipulated in UL1310.
- Minimum ambient operating temperature: -40°C.
- Maximum allowable casing temperature: 85°C.
- For reliability and failure rate information, contact GE Technical Sales Representative.
- The unit is UL certified for operation in dry/damp locations (Outdoor Type 1).
- The unit is tolerant of extended open circuit and short circuit conditions.
- The unit is compliant to FCC Title 47 Part 15 Class A.
- The unit is resistant to surges as per ANSI C136.2-2015 Location C, Enhanced Level 10kV/5kA.
- The unit cannot be hot plug-in at output side.

UL Conditions of Acceptability – E340135

- The unit has been examined to comply with Class 1 Output Criteria
- The unit is only to be used in dry or damp locations
- The metal casing must be connected to **EARTH**.
- TVSS-FGND (Yellow wire) shall be connected to fixture ground after hi-pot test using closest tab screw. **THIS IS NOT A SAFETY GROUND!**

| Input Inrush Current | | |
|----------------------|-----------------------------------|---------------------------------------|
| Product | Input Voltage (V _{rms}) | Peak Current Pulse (A _{pk}) |
| GED50MCC/CR1P600 | 277 | 45 |
| GED25MCC/CR1P350 | 277 | 35 |

Wiring Diagram:

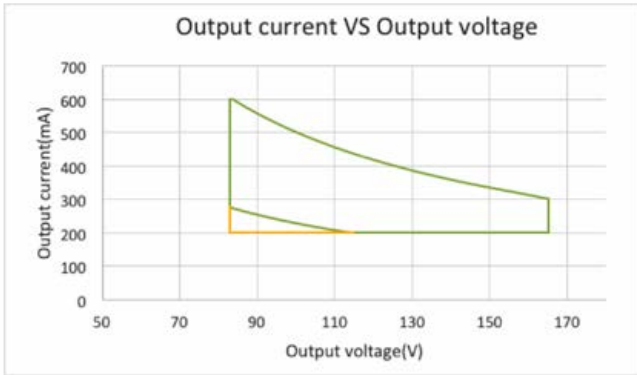


Product Labels:



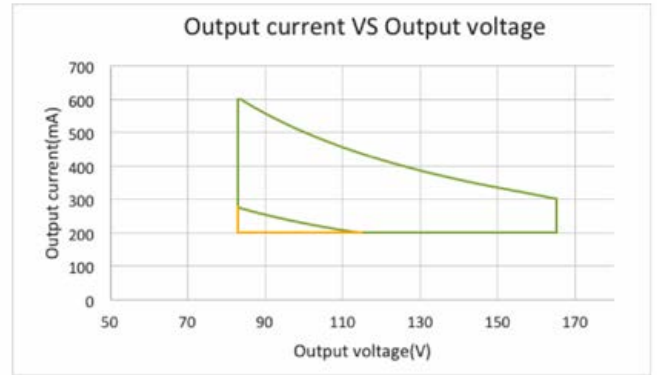
Technical Information

GED50MCC/CR1P600

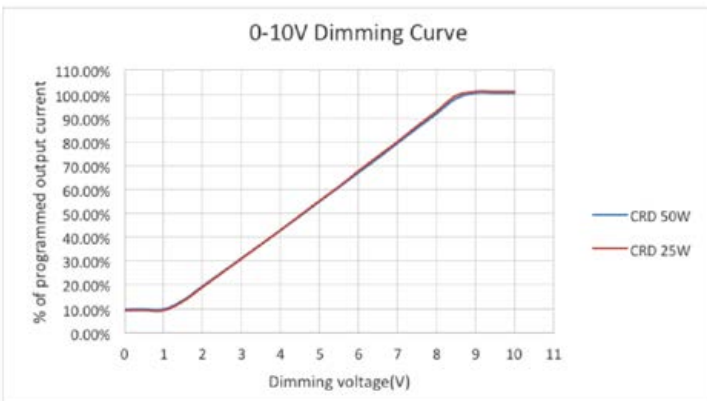
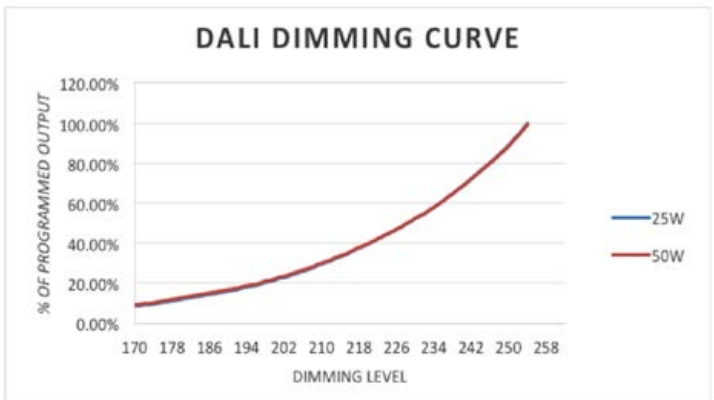
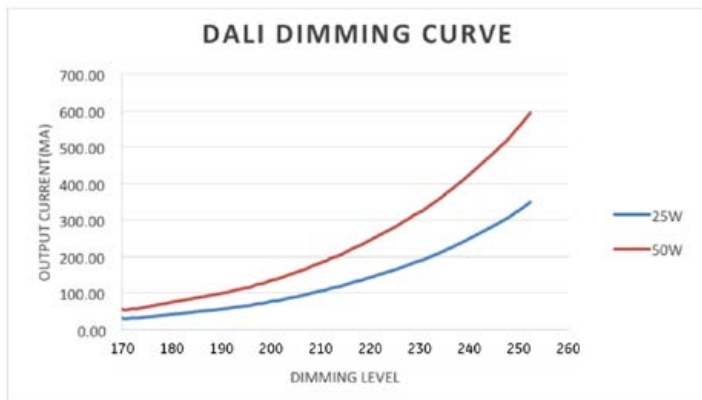
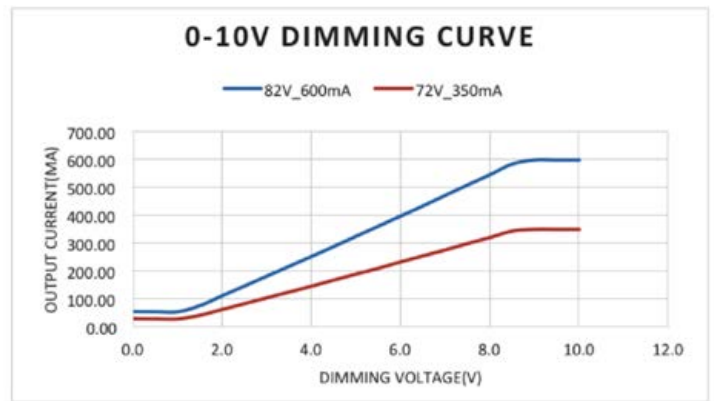
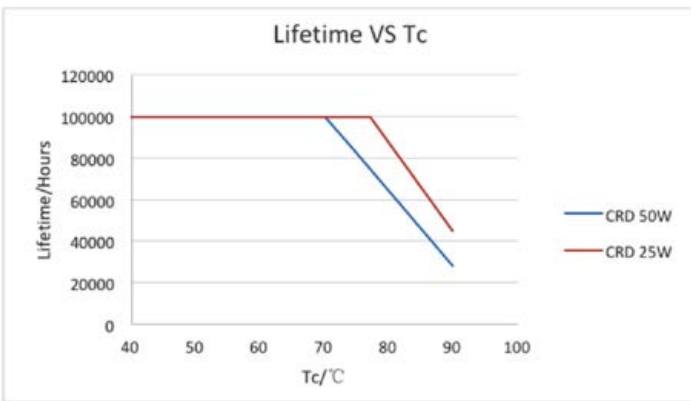


Note: the operation window is tested at room temperature = 25° deg C

GED25MCC/CR1P350

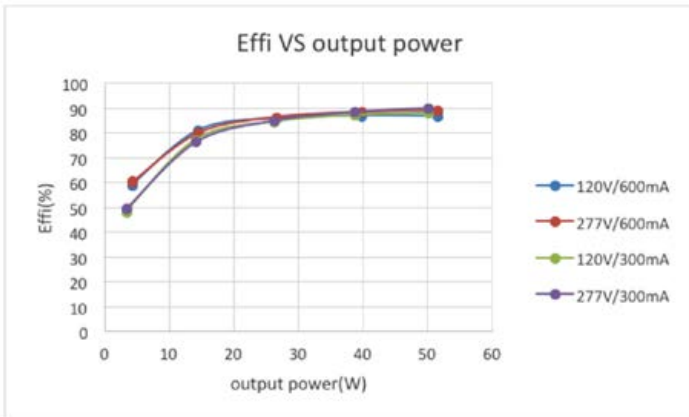
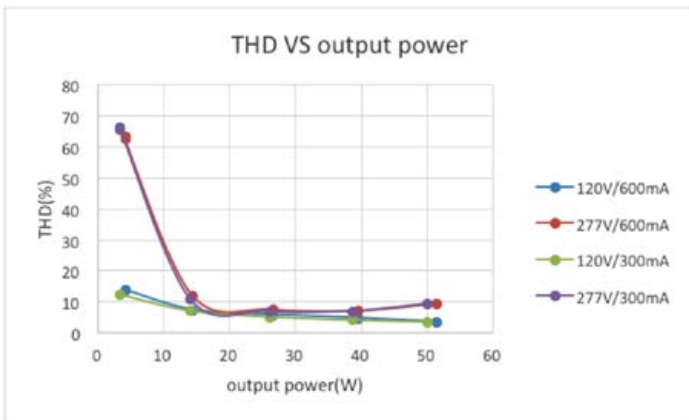
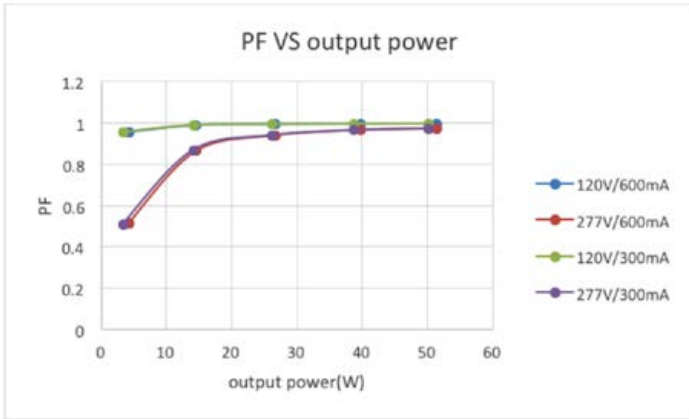


Note: the operation window is tested at room temperature = 25° deg C

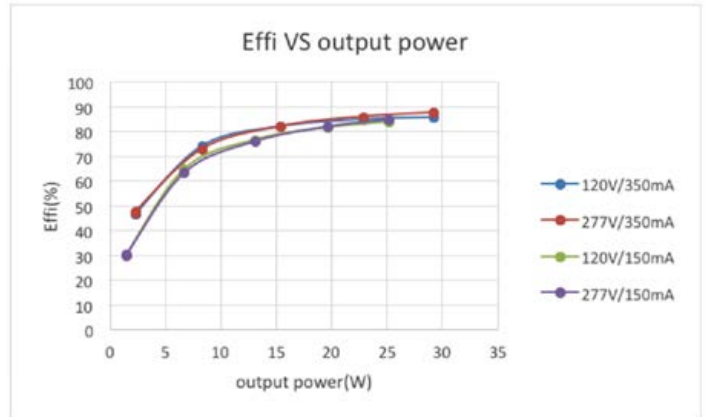
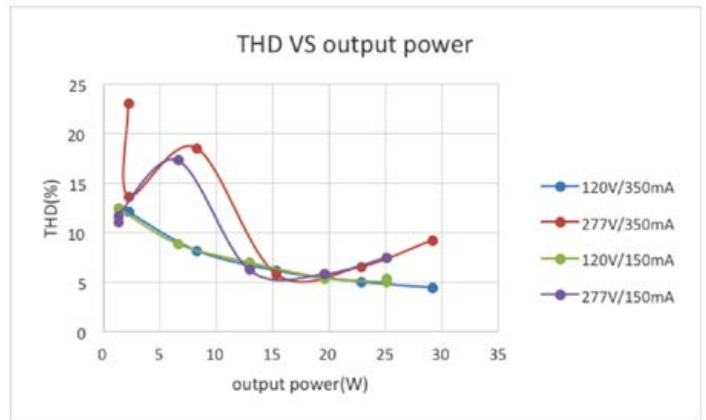
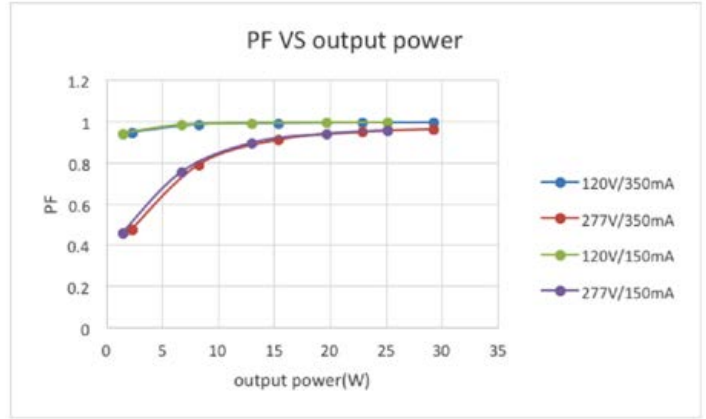


Technical Information

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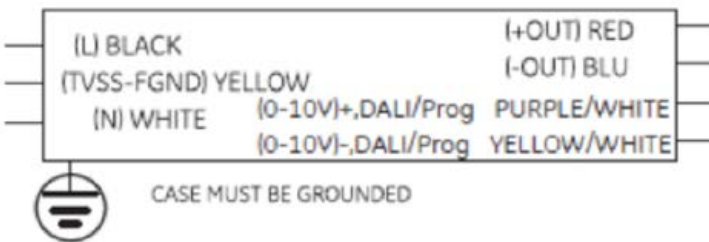
Current Programming Interface

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Firstly open the software (CRD50W_GUI_V1.0) and click the System Temp sheet, then put the value to be programmed (between 0 to 100%) into the Current Programming part, and then choose the DALI mode in Device Mode part, finally click the set button to complete the programming of driver.

The screenshot shows the 'System Temp' tab of the software interface. It includes sections for 'BANK 2 Header', 'Current Programming (Dimming Percent) [0..100] [%]', 'Thermal Protection', and 'Device Mode'. Four callout boxes with red arrows provide instructions: 1. 'Click here' points to the 'System Temp' tab. 2. 'Set the current percentage you want' points to the input field in the 'Current Programming' section. 3. 'Choose the Dali mode' points to the 'DALI mode' radio button in the 'Device Mode' section. 4. 'Click the set button' points to the downward arrow button at the bottom right.

Notes:



When using GUI to do current programming, purple/white wire connect to tridonic DALI BUS "+", yellow/white wire connect to tridonic DALI BUS "-".

0-10V and DALI Switch Over:

1.0 -10V to DALI

Physical Parameters | DALI Standard Banks | System Temp | CLO | ClockDIM Profile | Night Duration

BANK 2 Header

Address of last accessible memory location:

Check Sum:

Lock Byte:

Current Programming (Dimming Percent) [0..100] [%]

[%]

Thermal Protection

Thermal Protection Low Limit [0.. 4095]:

Thermal Protection High Limit [0.. 4095]:

Device Mode

0-10V mode DALI mode ClockDIM mode PowerBus mode

Click 'Dali mode' button

2. DALI to Power BUS

Physical Parameters | DALI Standard Banks | System Temp | CLO | ClockDIM Profile | Night Duration

BANK 2 Header

Address of last accessible memory location:

Check Sum:

Lock Byte:

Current Programming (Dimming Percent) [0..100] [%]

[%]

Thermal Protection

Thermal Protection Low Limit [0.. 4095]:

Thermal Protection High Limit [0.. 4095]:

Device Mode

0-10V mode DALI mode ClockDIM mode PowerBus mode

Click 'Power BUS mode' button