

Outdoor Dimming Driver

GED100MC/VD1P700S

Description: 100W 0.3/0.7A DALI/Dimmable/Programmable Class 1 PSU

Input Voltage: 120V/277V

Input Frequency: 60Hz

ROHS Compliant: Yes



| Max Output Power (W) | Output Current (A) | Output Voltage (V) | Efficiency Full load @120V | Max Input Current (A) | Max THD @50W Output | Min PF @50W Output | Max Inrush Current (A/mS) | Surge Protection (kV/kA) | Isolated Dimming | | | | Weight (lbs/kg) | IP Rating |
|----------------------|--------------------|--------------------|----------------------------|----------------------------|---------------------|--------------------|---------------------------|--------------------------|------------------|-------|----------------|--------------------------|-----------------|-----------|
| | | | | | | | | | Protocol | | Current Source | Dimming Range @full load | | |
| 100 | 0.3 ±55% | 142-290 | >89% | 1.04 @ 120V 0.45 @ 277V | 20% | >0.9 | See Page below | | DALI | 0-10V | 0.5mA | 100%-10% | 2.2 / 1 | IP66 |
| | 0.7 ± 5% | 100-142 | | | | | | | DALI | 0-10V | 0.5mA | 100%-10% | 2.2 / 1 | IP66 |

| | Color | Length in(cm) |
|--|--------------------|---------------|
| | Black (L) | 12 (30.5) |
| | Yellow (TVSS-GND) | 12 (30.5) |
| | White (N) | 12 (30.5) |
| | Violet/White(+Dim) | 18(45.72) |
| | Grey (- Dim) | 18(45.72) |
| | Violet (DALI) | 18(45.72) |
| | Violet (DALI) | 18(45.72) |
| | Red (+ Output) | 18(45.72) |
| | Blue (- Output) | 18(45.72) |

Product Features

Physical

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

Performance

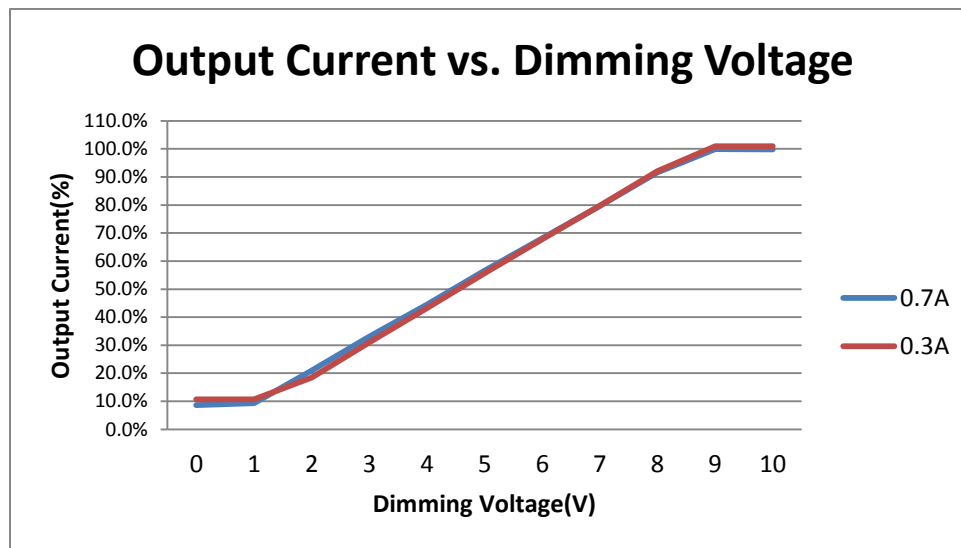
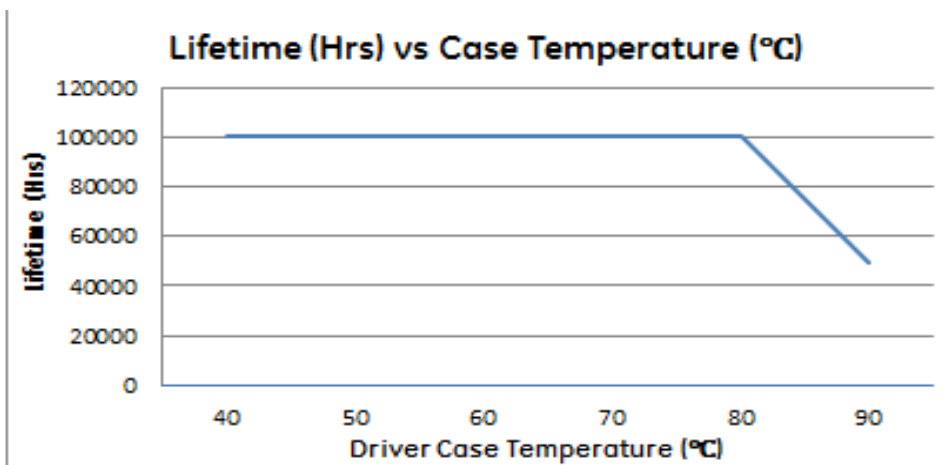
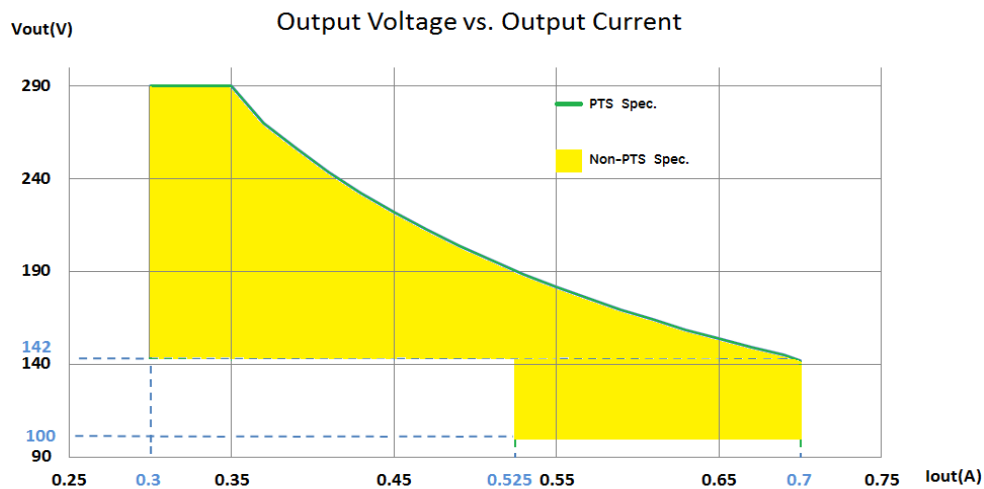
- The unit is classified as Class 1 as stipulated in UL8750.
- Dimming circuit is classified as Class 2 as stipulated in UL1310.
- Minimum ambient operating temperature: -40°C.
- Maximum allowable case temperature: 90°C.
- For reliability and failure rate information, contact GE Technical Sales Representative
- 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 IEEE/ANSI C62.41.2-2002 Location C-Low (10kV/5kA)
- The unit cannot be hot plug-in at output side.

UL Conditions of Acceptability – E340135

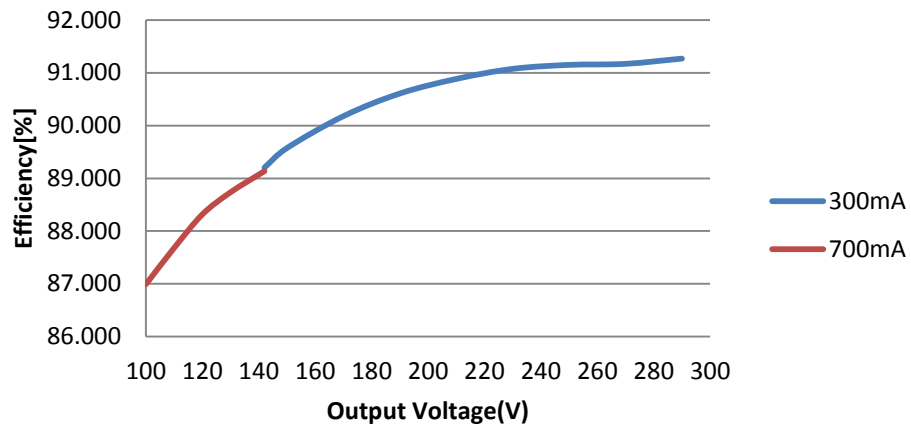
- The unit has been examined to comply with Class 1 Output Criteria
- The unit is only to be used in dry or damp locations
- The metal casing must be connected to EARTH.
- TVSS-GND (Yellow wire) shall be connected to fixture ground after hi-pot test using closest tab screw.
THIS IS NOT A SAFETY GROUND!

Technical Information

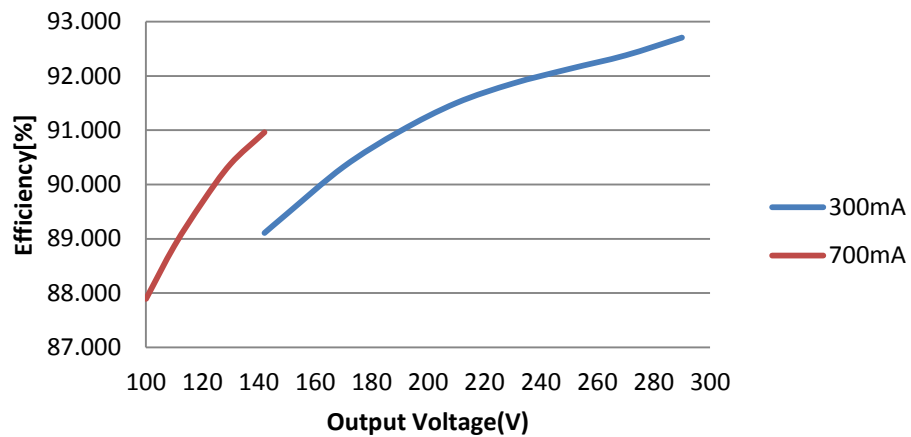
GED100MC/VD1P700S



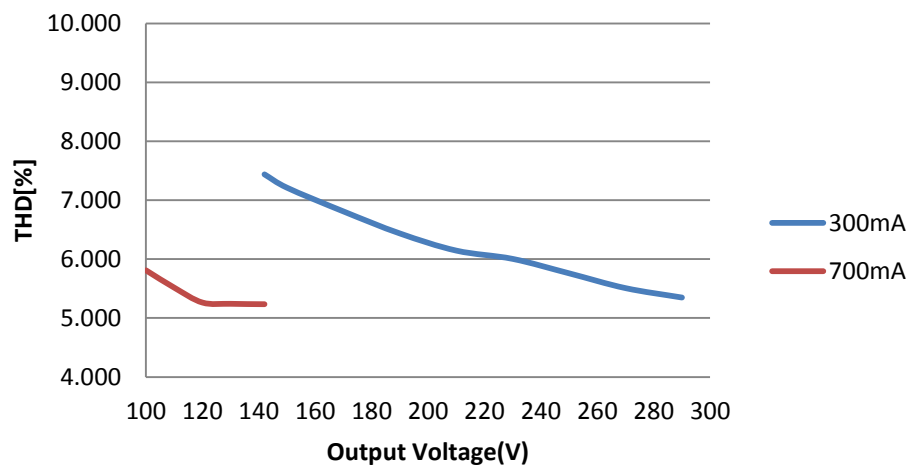
Efficiency vs Output Voltage @ 120V 60Hz

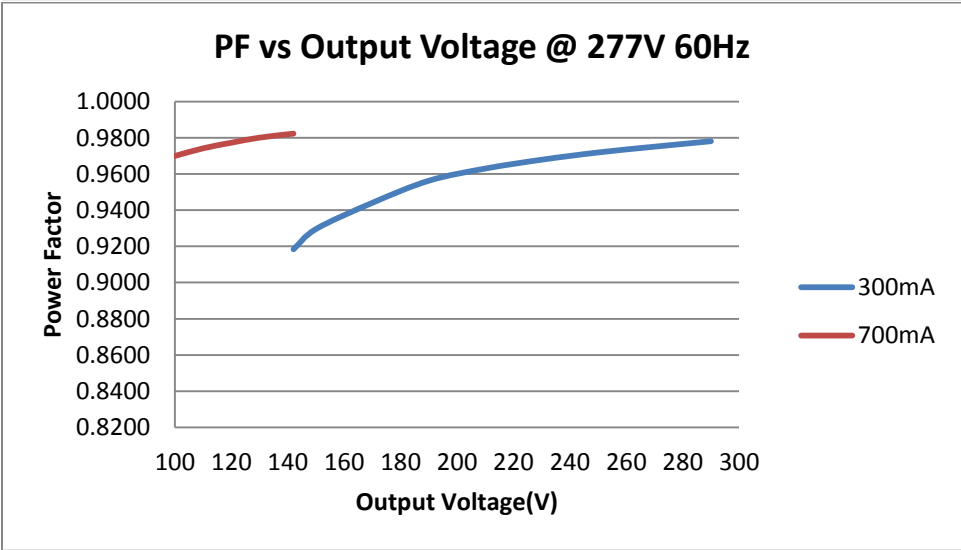
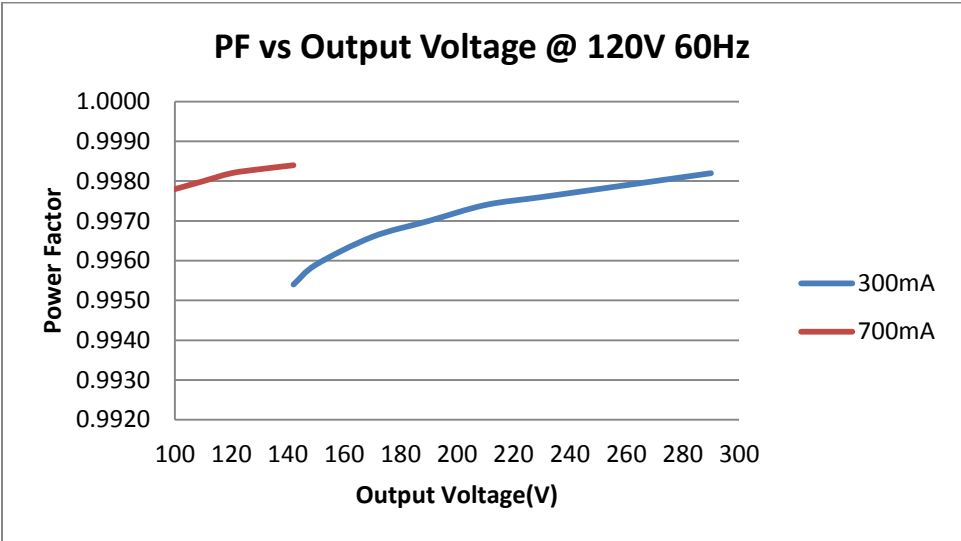
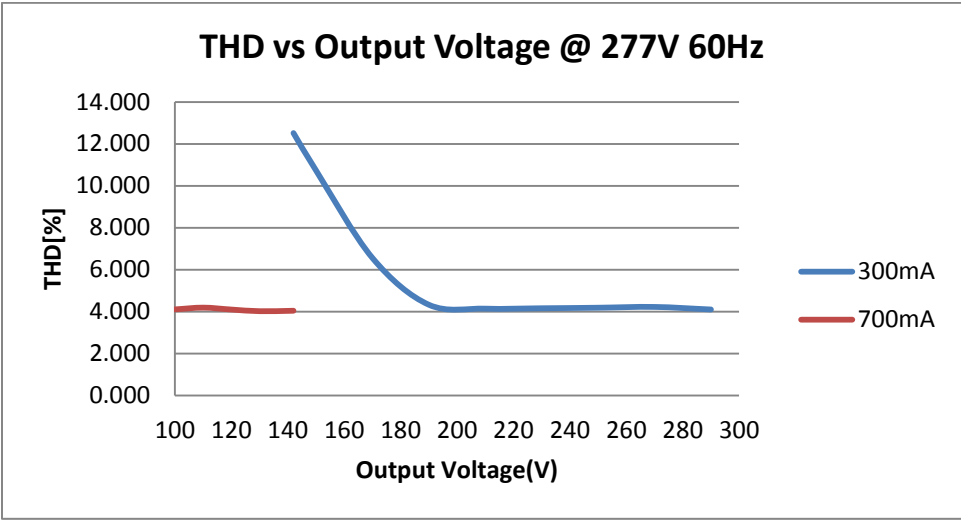


Efficiency vs Output Voltage @ 277V 60Hz



THD vs Output Voltage @ 120V 60Hz



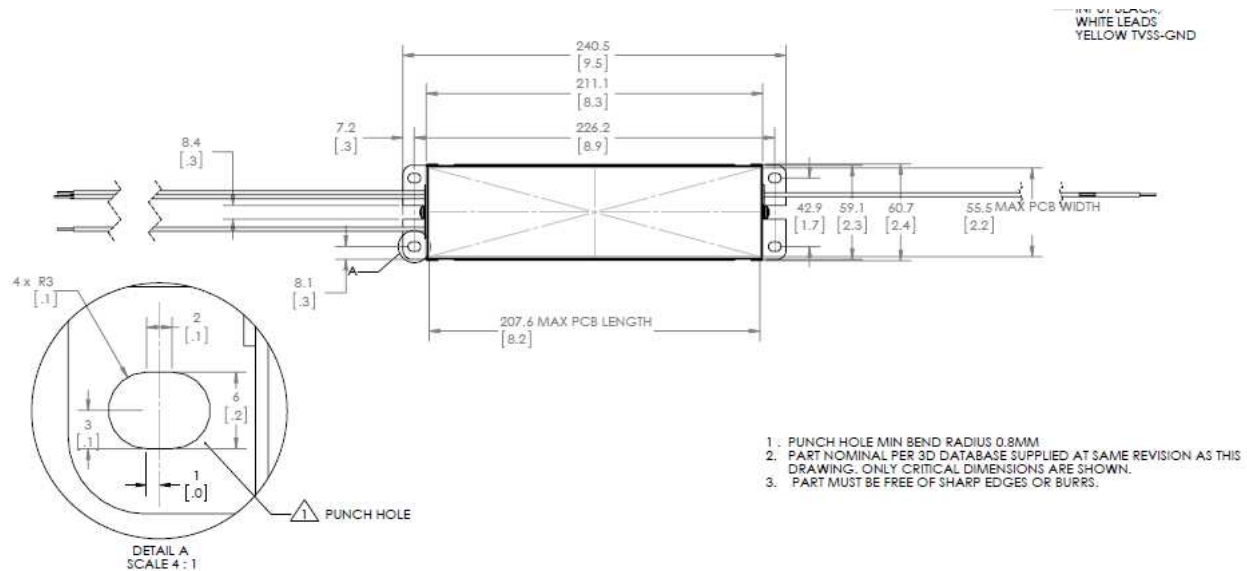


| Input Inrush Current | | |
|----------------------|------------------------|-----------------------------------|
| Input Voltage (Vrms) | Peak Current Pulse (A) | Pulse Duration (50% of Peak) (ms) |
| 120V | 45 | 0.1 |
| 230V | 100 | 0.1 |
| 277V | 118 | 0.1 |

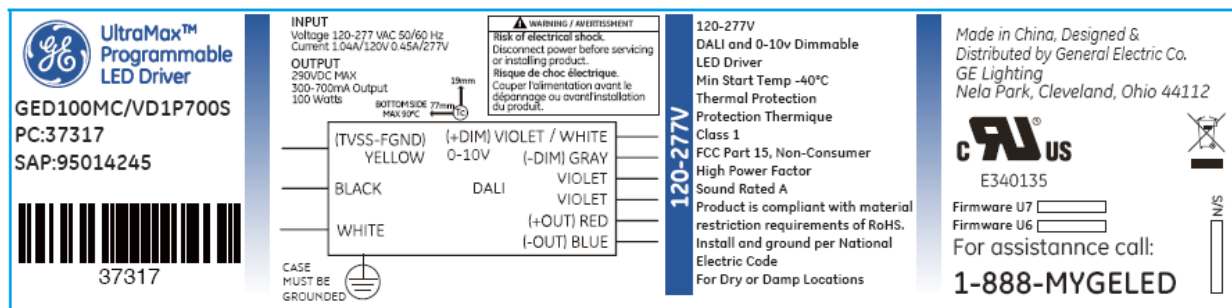
| Input Ground Leakage Current | |
|------------------------------|----------------------|
| Input Voltage (Vrms) | Leakage Current (mA) |
| 120V | 0.26 |
| 277V | 0.62 |

Product Dimensions

GED100MC/VD1P700S



Product Label



Current Programming Interface

Firstly open the software(DALI_NEW_API) and click the Bank2 sheet, then put the value to be programmed (between 0 to 100%) into the Value box for Current to Program of Bank 2 GE Use , finally click the set button to complete the programming of driver.

GeneralBank 0Bank 1Bank 2DALIBank Set

Bank 2 Header

| | Value | HEX |
|---|-------|------|
| Address of last accessible memory location: | 9 | 0x09 |
| Check Sum: | 0xB0 | 0xB0 |
| Lock Byte: | 170 | 0xAA |

Bank 2 GE Use

| | Value | HEX |
|----------------------|----------|---------------------|
| Current Programming: | 52 % | 0x02 0x1E |
| Default Power Value: | 16056470 | 0x00 0xF5 0x00 0x96 |

Device Mode:

☒ 0-10V mode☐ DALI mode☐ ClockDIMM mode

Clear All

Read Bank 2

Set

1st. Click here

2nd. Set the current percentage you want

3rd. Choose the Dali mode or 0-10V mode

4th. Click the set button