

## Features

- Panel Mount Connectors Facilitates Installation
- Rotary Switch+RJ12 Connector
- Hot-plugging Protection
- Parallel LED Protection
- Ultra High Efficiency (Up to 95%)
- Full Power at Wide Output Current Range (Constant Power)
- Adjustable Output Current (AOC) with Programmability
- Isolated 0-10V/PWM/Resistor/3-Timer-Modes Dimmable
- Adjustable Dimming Curve
- INV Digital Dimming, UART Based Communication Protocol
- Dim-to-Off
- Minimum Dimming Level with 5% or 10% Selectable
- Hold Time Adjustable
- Fade Time Adjustable
- Low Inrush Current
- Output Lumen Compensation
- End-of-Life Indicator
- Input Surge Protection: DM 6kV, CM 10kV
- All-Around Protection: IOVP, IUVP, OVP, SCP, OTP
- IP66 and UL Dry/Damp/Wet Location
- 5 Years Warranty



## Description

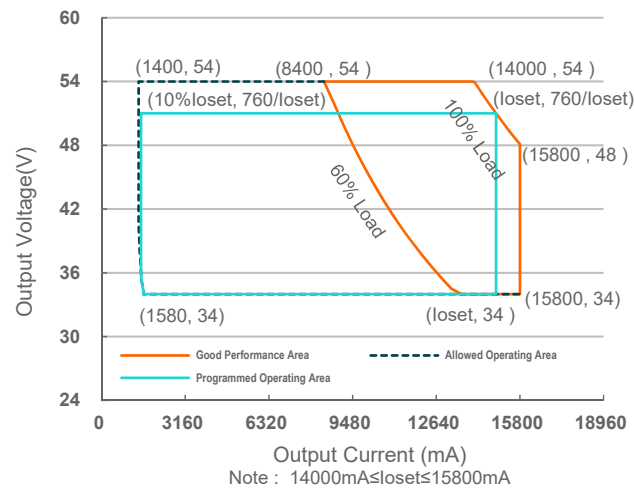
The SSM-760SxxxMGR series is a 760W, constant-current, programmable and IP66 rated LED driver that operates from 249-528Vac input with excellent power factor. Created for many lighting applications including high mast, sports, UV-LED, aquaculture and horticulture, etc. It provides rotary switch, RJ12 connector and dim-to-off functionality. The dimming control supports 0-10V dimming as well as two-way communication via Digital Dimming, a UART based communication protocol. 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, input under voltage, input over voltage, output over voltage, short circuit, and over temperature.

## Models

| Adjustable Output Current Range(A) | Full-Power Current Range(A) <sup>(1)</sup> | Default Output Current(A) | Output Voltage Range(Vdc) | Max. Output Power(W) | Typical Efficiency <sup>(2)</sup> | Typical Power Factor |        | Model Number <sup>(3)(4)</sup> |
|------------------------------------|--------------------------------------------|---------------------------|---------------------------|----------------------|-----------------------------------|----------------------|--------|--------------------------------|
|                                    |                                            |                           |                           |                      |                                   | 277Vac               | 480Vac |                                |
| 1.4-15.8                           | 14-15.8                                    | 14A                       | 34-54                     | 760W                 | 95.0%                             | 0.99                 | 0.96   | SSM-760S15AMGR                 |

- Notes:** (1) Output current range with constant power at 760W.  
(2) Measured at 100% load and 480Vac input (see below "General Specifications" for details).  
(3) Certified voltage range: UL, FCC 277-480Vac; otherwise: 277-400Vac.  
(4) SELV output.

## I-V Operating Area



## Input Specifications

| Parameter                        | Min.    | Typ. | Max.                  | Notes                                                                                        |
|----------------------------------|---------|------|-----------------------|----------------------------------------------------------------------------------------------|
| Input AC Voltage                 | 249 Vac | -    | 528 Vac               |                                                                                              |
| Input DC Voltage                 | 352 Vdc | -    | 500 Vdc               |                                                                                              |
| Input Frequency                  | 47 Hz   | -    | 63 Hz                 |                                                                                              |
| Leakage Current                  | -       | -    | 0.75 MIU              | UL 8750; 480Vac/60Hz                                                                         |
|                                  | -       | -    | 0.70 mA               | IEC 60598-1; 480Vac/60Hz                                                                     |
| Input AC Current                 | -       | -    | 3.24 A                | Measured at 100% load and 277 Vac input.                                                     |
|                                  | -       | -    | 1.87 A                | Measured at 100% load and 480 Vac input.                                                     |
| Inrush Current(I <sub>2t</sub> ) | -       | -    | 1.80 A <sup>2</sup> s | At 480Vac input, 25°C cold start, duration=6.06 ms, 10%I <sub>pk</sub> -10%I <sub>pk</sub> . |
| PF                               | 0.90    | -    | -                     | At 277-480Vac, 50-60Hz, 60%-100%Load (456 - 760W)                                            |
| THD                              | -       | -    | 20%                   |                                                                                              |

## Output Specifications

| Parameter                                        | Min.     | Typ.                | Max.                 | Notes                |
|--------------------------------------------------|----------|---------------------|----------------------|----------------------|
| Output Current Tolerance                         | -5%loset | -                   | 5%loset              | 100% load            |
| Output Current Setting(loset Range)              |          |                     |                      |                      |
| SSM-760S15AMGR                                   | 1400 mA  | -                   | 15800 mA             |                      |
| Output Current Setting Range with Constant Power |          |                     |                      |                      |
| SSM-760S15AMGR                                   | 14000 mA | -                   | 15800 mA             |                      |
| Total Output Current Ripple (pk-pk)              | -        | 5%I <sub>omax</sub> | 10%I <sub>omax</sub> | 100% load, 20 MHz BW |
| Output Current Ripple at < 200 Hz (pk-pk)        | -        | -                   | 2%I <sub>omax</sub>  | 70%-100% load        |
| Startup Overshoot Current                        | -        | -                   | 10%I <sub>omax</sub> | 100% load            |

## Output Specifications (Continued)

| Parameter                                     | Min. | Typ.     | Max.  | Notes                                       |
|-----------------------------------------------|------|----------|-------|---------------------------------------------|
| No Load Output Voltage<br>SSM-760S15AMGR      | -    | -        | 60 V  |                                             |
| Line Regulation                               | -    | -        | ±0.5% | 100% load                                   |
| Load Regulation                               | -    | -        | ±3.0% |                                             |
| Turn-on Delay Time                            | -    | -        | 0.5 s | Measured at 277-480Vac input, 60%-100% Load |
| Temperature Coefficient of I <sub>o</sub> set | -    | 0.03%/°C | -     | Case temperature = 0°C ~T <sub>c</sub> max  |

## General Specifications

| Parameter                                                                                                | Min.                                    | Typ.           | Max.   | Notes                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Efficiency at 277 Vac input:<br>SSM-760S15AMGR<br>I <sub>o</sub> = 14000 mA<br>I <sub>o</sub> = 15800 mA | 91.5%<br>91.5%                          | 93.5%<br>93.5% | -<br>- | Measured at 100% load and steady-state temperature in 25°C ambient;<br>(Efficiency will be about 2.0% lower if measured immediately after startup.) |
| Efficiency at 400 Vac input:<br>SSM-760S15AMGR<br>I <sub>o</sub> = 14000 mA<br>I <sub>o</sub> = 15800 mA | 92.5%<br>92.5%                          | 94.5%<br>94.5% | -<br>- | Measured at 100% load and steady-state temperature in 25°C ambient;<br>(Efficiency will be about 2.0% lower if measured immediately after startup.) |
| Efficiency at 480 Vac input:<br>SSM-760S15AMGR<br>I <sub>o</sub> = 14000 mA<br>I <sub>o</sub> = 15800 mA | 93.0%<br>93.0%                          | 95.0%<br>95.0% | -<br>- | Measured at 100% load and steady-state temperature in 25°C ambient;<br>(Efficiency will be about 2.0% lower if measured immediately after startup.) |
| Standby Power                                                                                            | -                                       | 1.5 W          | -      | Measured at 480Vac/50Hz; Dimming off                                                                                                                |
| MTBF                                                                                                     | -                                       | 224,000 Hours  | -      | Measured at 480Vac input, 80%Load and 25°C ambient temperature (MIL-HDBK-217F)                                                                      |
| Lifetime                                                                                                 | -                                       | 111,000 Hours  | -      | Measured at 480Vac input, 80%Load and 70°C case temperature; See lifetime vs. T <sub>c</sub> curve for the details                                  |
|                                                                                                          | -                                       | 50,000 Hours   | -      | Measured at 277Vac input, 100%Load and 40°C ambient temperature                                                                                     |
| Operating Case Temperature for Safety T <sub>c_s</sub>                                                   | -40°C                                   | -              | +90°C  |                                                                                                                                                     |
| Operating Case Temperature for Warranty T <sub>c_w</sub>                                                 | -40°C                                   | -              | +80°C  | Case temperature for 5 years warranty<br>Humidity: 10%RH to 95%RH                                                                                   |
| Storage Temperature                                                                                      | -40°C                                   | -              | +85°C  | Humidity: 5%RH to 95%RH                                                                                                                             |
| Dimensions<br>Inches (L × W × H)<br>Millimeters (L × W × H)                                              | 15.35 × 4.25 × 1.91<br>390 × 108 × 48.5 |                |        | With mounting ear<br>16.34 × 4.25 × 1.91<br>415 × 108 × 48.5                                                                                        |
| Net Weight                                                                                               | -                                       | 3360 g         | -      |                                                                                                                                                     |

## Dimming Specifications

| Parameter                                                | Min.  | Typ.   | Max.   | Notes                      |
|----------------------------------------------------------|-------|--------|--------|----------------------------|
| Absolute Maximum Voltage on the V <sub>dim</sub> (+) Pin | -20 V | -      | 20 V   |                            |
| Source Current on V <sub>dim</sub> (+)Pin                | 90 uA | 100 uA | 110 uA | V <sub>dim</sub> (+) = 0 V |

## Dimming Specifications (Continued)

| Parameter                                    |                | Min.     | Typ.  | Max.   | Notes                                                        |
|----------------------------------------------|----------------|----------|-------|--------|--------------------------------------------------------------|
| Dimming Output Range with 10%-100% (Default) | SSM-760S15AMGR | 10%loset | -     | loset  | 14000 mA ≤ loiset ≤ 15800 mA                                 |
|                                              | SSM-760S15AMGR | 1400 mA  | -     | loset  | 1400 mA ≤ loiset < 14000 mA                                  |
| Dimming Output Range with 5%-100% (Settable) | SSM-760S15AMGR | 5%loset  | -     | loset  | 14000 mA ≤ loiset ≤ 15800 mA                                 |
|                                              | SSM-760S15AMGR | 700 mA   | -     | loset  | 1400 mA ≤ loiset < 14000 mA                                  |
| Recommended Dimming Input Range              |                | 0 V      | -     | 10 V   | Default 0-10V dimming mode.                                  |
| Dim off Voltage                              |                | 0.35 V   | 0.5 V | 0.65 V |                                                              |
| Dim on Voltage                               |                | 0.55 V   | 0.7 V | 0.85 V |                                                              |
| Hysteresis                                   |                | -        | 0.2 V | -      |                                                              |
| PWM_in High Level                            |                | 3 V      | -     | 10 V   | Dimming mode set to PWM in Inventronics Programing Software. |
| PWM_in Low Level                             |                | -0.3 V   | -     | 0.6 V  |                                                              |
| PWM_in Frequency Range                       |                | 200 Hz   | -     | 3 KHz  |                                                              |
| PWM_in Duty Cycle                            |                | 1%       | -     | 99%    |                                                              |
| PWM Dimming off (Positive Logic)             |                | 3%       | 5%    | 8%     |                                                              |
| PWM Dimming on (Positive Logic)              |                | 5%       | 7%    | 10%    |                                                              |
| PWM Dimming off ( Negative Logic)            |                | 92%      | 95%   | 97%    |                                                              |
| PWM Dimming on ( Negative Logic)             |                | 90%      | 93%   | 95%    |                                                              |
| Hysteresis                                   |                | -        | 2%    | -      |                                                              |

## Safety & EMC Compliance

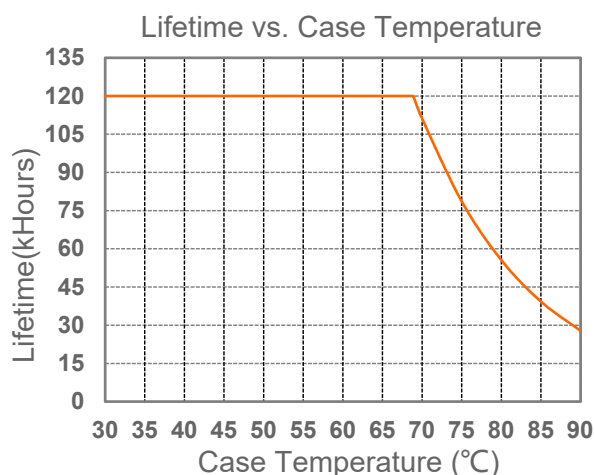
| Safety Category             | Standard                                                                                                                                                                                                                                                                            |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UL/CUL                      | UL 8750,CAN/CSA-C22.2 No. 250.13                                                                                                                                                                                                                                                    |
| CE                          | EN 61347-1, EN 61347-2-13                                                                                                                                                                                                                                                           |
| CB                          | IEC 61347-1, IEC 61347-2-13                                                                                                                                                                                                                                                         |
| EMI Standards               | Notes                                                                                                                                                                                                                                                                               |
| EN IEC 55015 <sup>(1)</sup> | Conducted emission Test &Radiated emission Test                                                                                                                                                                                                                                     |
| EN IEC 61000-3-2            | Harmonic current emissions                                                                                                                                                                                                                                                          |
| EN 61000-3-3                | Voltage fluctuations & flicker                                                                                                                                                                                                                                                      |
| FCC Part 15 <sup>(1)</sup>  | ANSI C63.4 Class B                                                                                                                                                                                                                                                                  |
|                             | This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: [1] this device may not cause harmful interference, and [2] this device must accept any interference received, including interference that may cause undesired Operation. |

## Safety & EMC Compliance (Continued)

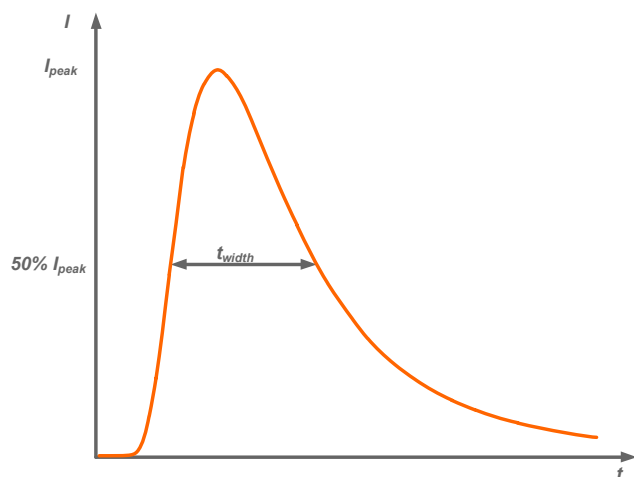
| EMS Standards | Notes                                                                         |
|---------------|-------------------------------------------------------------------------------|
| EN 61000-4-2  | Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge     |
| EN 61000-4-3  | Radio-Frequency Electromagnetic Field Susceptibility Test-RS                  |
| EN 61000-4-4  | Electrical Fast Transient / Burst-EFT                                         |
| EN 61000-4-5  | Surge Immunity Test: AC Power Line: Differential Mode 6 kV, Common Mode 10 kV |
| EN 61000-4-6  | Conducted Radio Frequency Disturbances Test-CS                                |
| EN 61000-4-8  | Power Frequency Magnetic Field Test                                           |
| EN 61000-4-11 | Voltage Dips                                                                  |
| EN 61547      | Electromagnetic Immunity Requirements Applies To Lighting Equipment           |

**Note:** (1) This LED driver meets the EMI specifications above, but EMI performance of a luminaire that contains it depends also on the other devices connected to the driver and on the fixture itself.

## Lifetime vs. Case Temperature

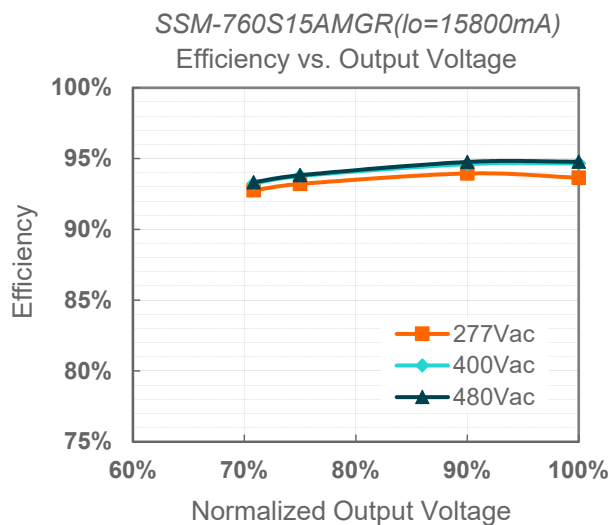
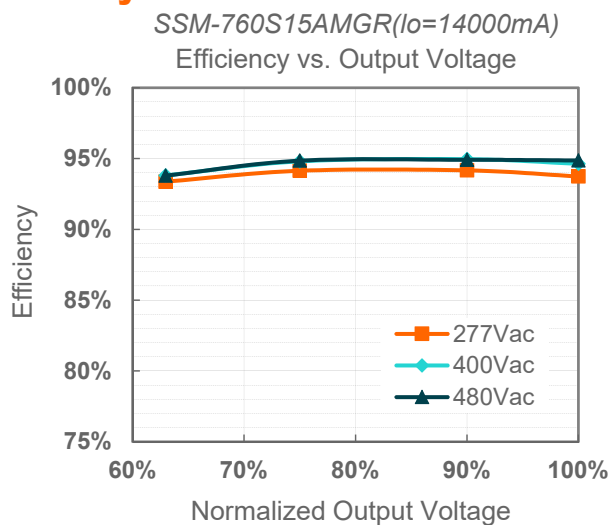


## Inrush Current Waveform

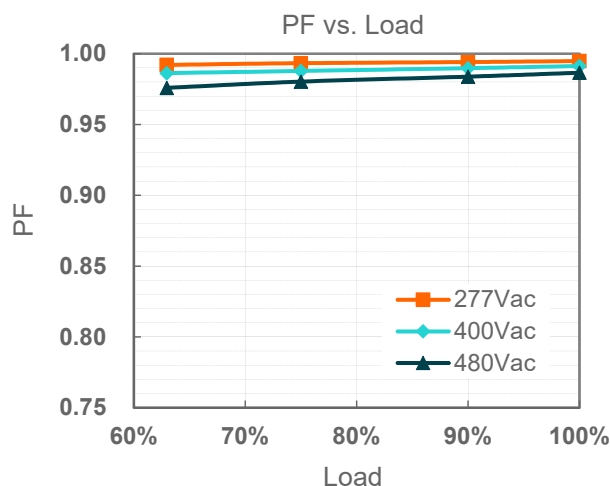


| Input AC Voltage | $I_{peak}$ | $t_{width}$<br>(@ 50% $I_{peak}$ ) |
|------------------|------------|------------------------------------|
| 480V             | 19.9A      | 1.84ms                             |

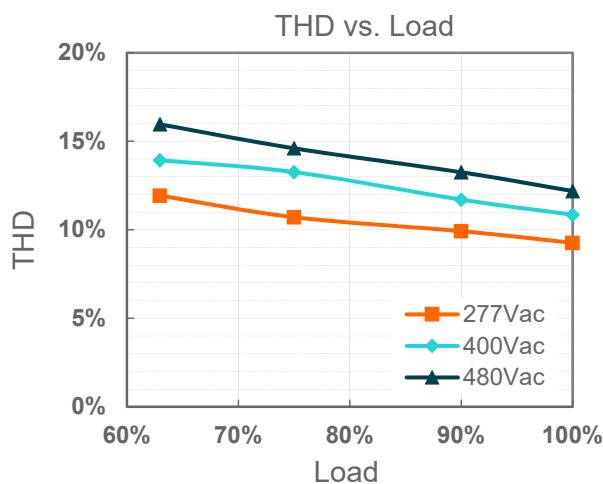
## Efficiency vs. Load



## Power Factor

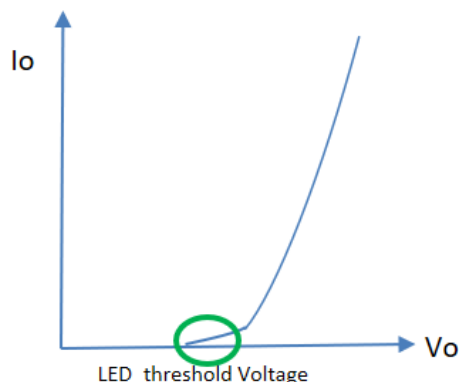


## Total Harmonic Distortion



## Hot-plugging Protection

This feature protects LEDs when connecting to a driver that is already powered on. This is disabled by default and can be enabled through the Inventronics Programming Software.



LED threshold voltage ( $V_{th}$ ) is the minimum voltage required for current to flow through the LED load. After this threshold is met, the LED forward voltage ( $V_f$ ) increases as the current increases.

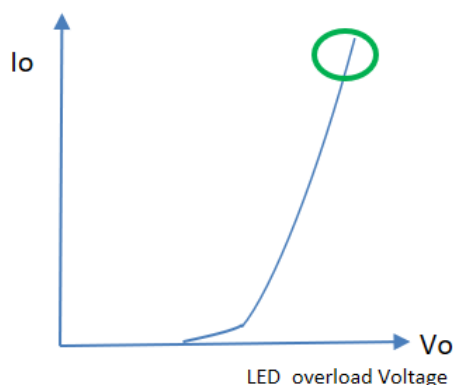
Set  $V_{th}$  close to, but higher than the actual LED threshold voltage for optimized performance. The greater the difference between the  $V_{th}$  setting and the actual LED threshold voltage, the higher the overshoot current will be. The  $V_{th}$  setting must be lower than  $V_f$ .

Please test, program, and tune this feature for each LED load design.

| Parameter               |                                     | Min. | Typ. | Max. | Notes                                                                   |
|-------------------------|-------------------------------------|------|------|------|-------------------------------------------------------------------------|
| Hot-plugging Protection | LED Threshold Voltage Setting Range | 44 V | -    | 54 V | Set $V_{th}$ close to, but higher than the actual LED threshold voltage |
|                         | Setting Tolerance                   | -2%  | -    | 2%   |                                                                         |

## Parallel LED Protection

This feature helps protect parallel LEDs from a high, overcurrent condition by limiting the voltage. This is disabled by default and can be enabled through the Inventronics Programming Software.



Set  $V_{overload}$  close to, but higher than the maximum forward voltage for optimized performance. The greater the difference between the  $V_{overload}$  setting and the maximum forward voltage, the higher the overload stress will be. The  $V_{overload}$  setting must be higher than  $V_f$ .

Please test, program, and tune this feature for each LED load design.

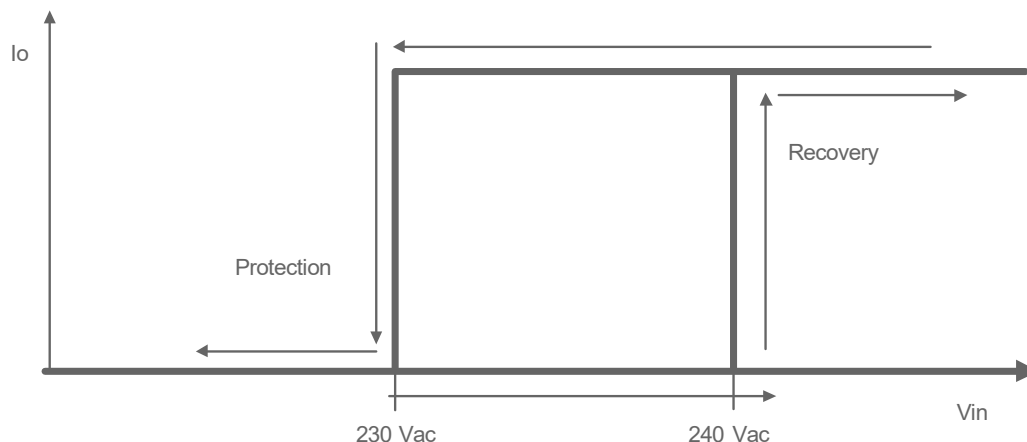
| Parameter               |                                | Min. | Typ. | Max. | Notes                                                                        |
|-------------------------|--------------------------------|------|------|------|------------------------------------------------------------------------------|
| Parallel LED Protection | Overload Voltage Setting Range | 47 V | -    | 56 V | Set $V_{overload}$ close to, but higher than the maximum LED forward voltage |
|                         | Setting Tolerance              | -2%  | -    | 2%   |                                                                              |

## Protection Functions

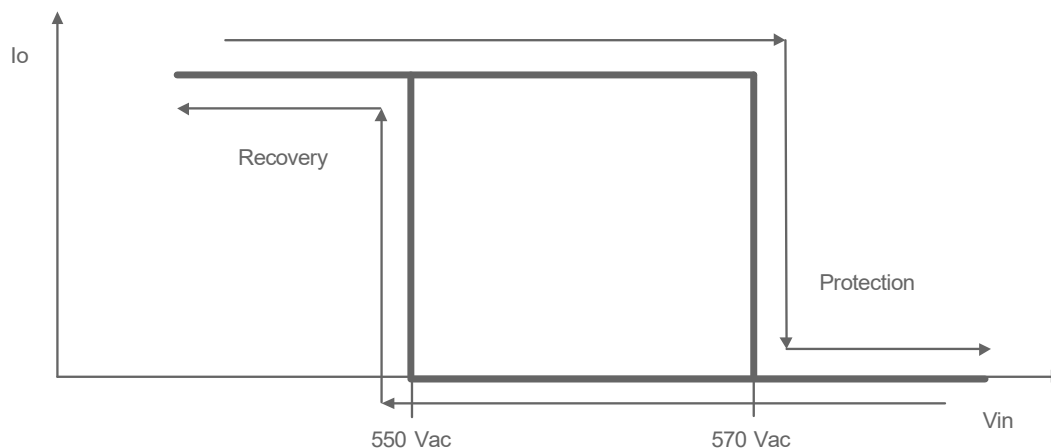
| Parameter                             |                               | Min.                                                                                                                                           | Typ.    | Max.    | Notes                                                                                       |
|---------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------------------------------------------------------------------------------------------|
| Over Temperature Protection           |                               | Decreases output current, returning to normal after over temperature is removed.                                                               |         |         |                                                                                             |
| Short Circuit Protection              |                               | Auto Recovery. 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.                                                                   |         |         |                                                                                             |
| Input Under Voltage Protection (IUVP) | Input Protection Voltage      | 220 Vac                                                                                                                                        | 230 Vac | 240 Vac | Turn off the output when the input voltage falls below protection voltage.                  |
|                                       | Input Recovery Voltage        | 230 Vac                                                                                                                                        | 240 Vac | 250 Vac | Auto Recovery. The driver will restart when the input voltage exceeds recovery voltage.     |
| Input Over Voltage Protection (IOVP)  | Input Over Voltage Protection | 550 Vac                                                                                                                                        | 570 Vac | 590 Vac | Turn off the output when the input voltage exceeds protection voltage.                      |
|                                       | Input Over Voltage Recovery   | 530 Vac                                                                                                                                        | 550 Vac | 570 Vac | Auto Recovery. The driver will restart when the input voltage falls below recovery voltage. |
|                                       | Max. of Input Over Voltage    | -                                                                                                                                              | -       | 590 Vac | The driver can survive for 8 hours with a stable input voltage stress of 590Vac.            |

**Note:** When removing the protective cap of RJ12, the waterproof protection performance should be evaluated together with external connected system by users.

### Input Under Voltage Protection Diagram

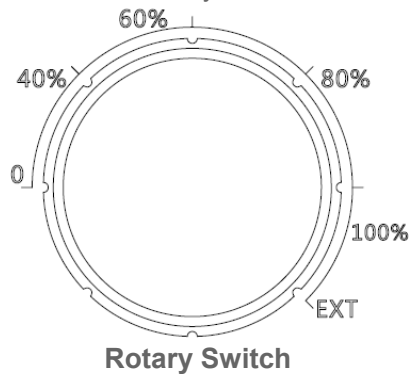


### Input Over Voltage Protection Diagram

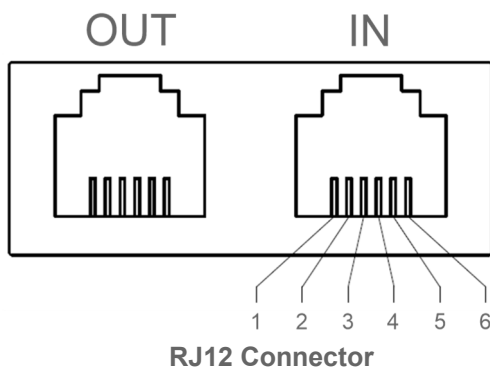


## ● Rotary Switch and RJ12 Connector

Output current can be set as 0, 40%, 60%, 80%, 100% level by rotary switch and the output current can be dimmed by dimming wire in RJ12 connector when rotary switch is at 'EXT' position. The default mode is in 'EXT'



Rotary Switch



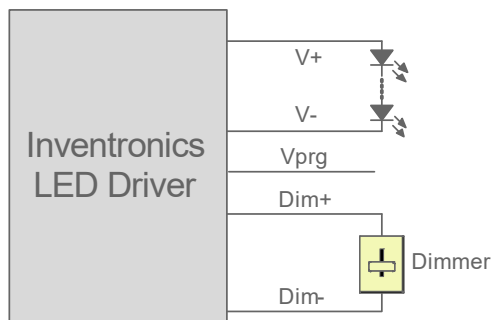
RJ12 Connector

| Pin | Function |
|-----|----------|
| 1,6 | Vprg     |
| 2,5 | Dim+     |
| 3,4 | Dim-     |

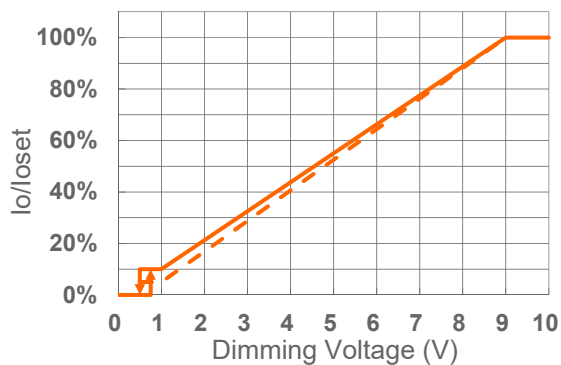
## Dimming

### ● 0-10V Dimming

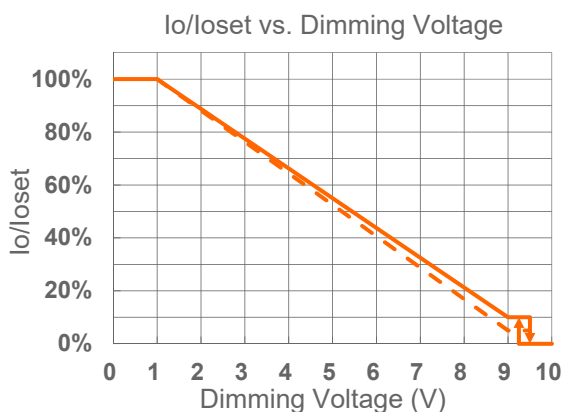
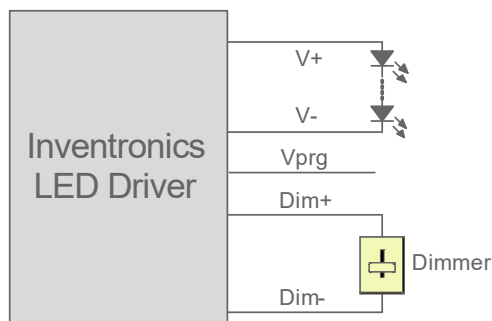
The recommended implementation of the dimming control is provided below.



Io/Ioset vs. Dimming Voltage



Implementation 1: Positive logic



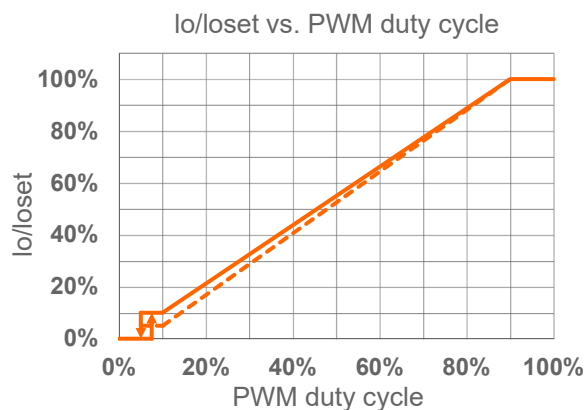
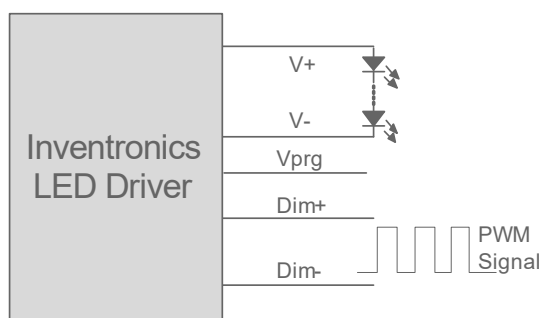
## Implementation 2: Negative logic

### Notes:

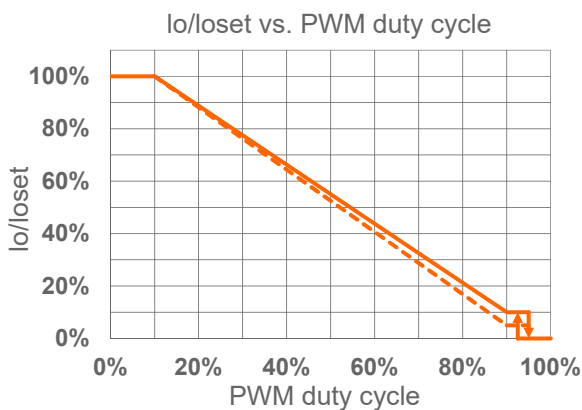
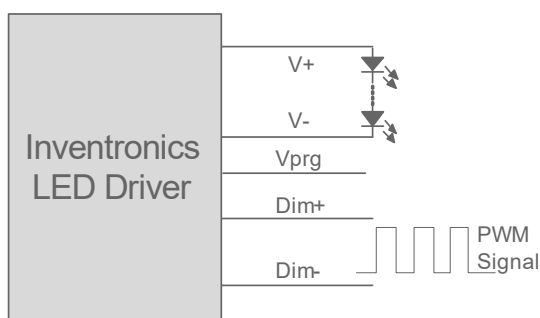
1. Do NOT connect Dim- to the output V- or V+, otherwise the driver will not work properly.
2. The dimmer can also be replaced by an active 0-10V voltage source signal or passive components like zener.
3. When 0-10V negative logic dimming mode and Dim+ is open, the driver will dim to off and be standby.

## ● PWM Dimming

The recommended implementation of the dimming control is provided below.



## Implementation 3: Positive logic



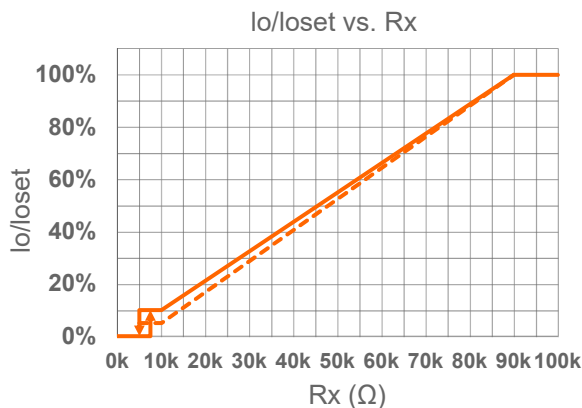
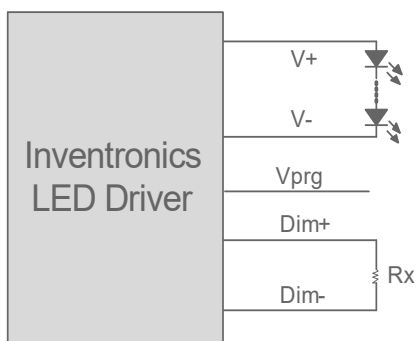
## Implementation 4: Negative logic

### Notes:

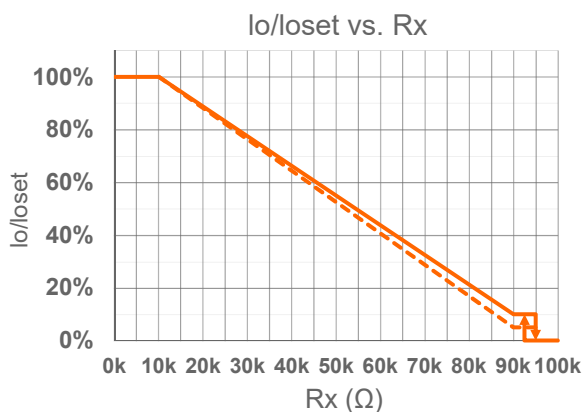
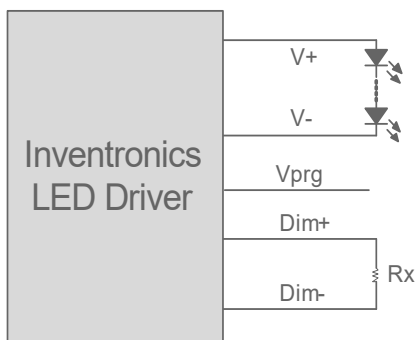
1. Do NOT connect Dim- to the output V- or V+, otherwise the driver will not work properly.
2. When PWM negative logic dimming mode and Dim+ is open, the driver will dim to off and be standby.

## ● Resistor Dimming

The recommended implementation of the dimming control is provided below.



Implementation 5: Positive logic



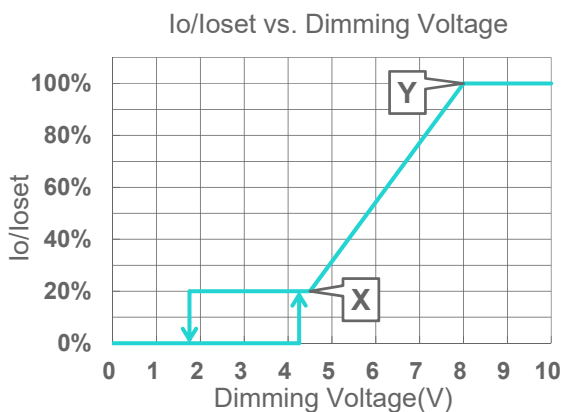
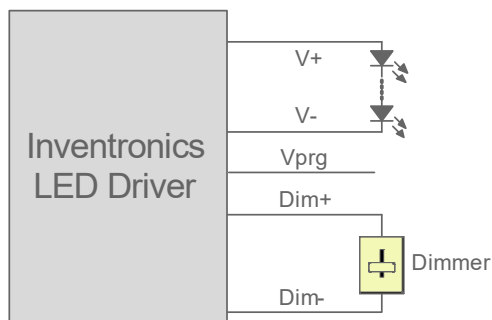
Implementation 6: Negative logic

### Notes:

1. Do NOT connect Dim- to the output V- or V+, otherwise the driver will not work properly.
2. When resistor negative logic dimming mode and Dim+ is open, the driver will dim to off and be standby.

## ● Adjustable Dimming Curve

0-10V dimming curve can be set as corresponding dimming voltage by Inventronics Multi Programmer. Take the positive logic dimming as an example, the recommended implementation of the dimming control is provided below.



Implementation 7: Positive logic

## Notes:

1. Do NOT connect Dim- to the output V- or V+, otherwise the driver will not work properly.
2. The dimmer can also be replaced by an active 0-10V voltage source signal or passive components like zener.
3. When dimming voltage X point is set to be smaller than Y point, the dimming curve is positive logic; conversely, when X point is set to be bigger than Y point, the dimming curve is negative logic.
4. For best dimming accuracy, the difference between X point and Y point is advised more than 4V.
5. Dimming off voltage adjustable.

## ● Time Dimming

Time dimming control includes 3 kinds of modes, they are Self Adapting-Midnight, Self Adapting-Percentage and Traditional Timer.

- **Self Adapting-Midnight:** Automatically adjusts the dimming curve based on the on-time of past two days (if difference <15 minutes), assuming that the center point of the dimming curve is midnight local time.
- **Self Adapting-Percentage:** Automatically adjusts the on-time of each step by a constant percentage = (actual on-time for the past 2 days if difference <15 min) / (programmed on-time from the dimming curve).
- **Traditional Timer:** Follows the programmed timing curve after power on with no changes.

## ● Output Lumen Compensation

Output Lumen Compensation (OLC) may be used to maintain constant light output over the life of the LEDs by driving them at a reduced current when new, then gradually increasing the drive current over time to counteract LED lumen degradation.

## ● Minimum Dimming Level with 5% or 10% Selectable

The minimum dimming level can be set as 5% or 10% by Inventronics Multi Programmer, 10% is default.

## ● Hold Time Adjustable

When AC power is first applied to the LED driver, enabling a "Hold" period can allow devices powered by the Auxiliary voltage to stabilize before the driver fades up to the maximum dimming level. During this period, the driver will not respond to external dimming commands but will respond again after the hold time ends. Both the initial dimming percentage and the duration of this hold period can be adjusted by the Inventronics Multi Programmer. This function is disabled by default.

## ● Fade Time Adjustable

There is a "Fade" period after the "Hold" period. The soft-start time and dimming slope applied to all dimming transitions can be adjusted individually. It is adjusted by the Inventronics Multi Programmer. This function is disabled by default.

## ● End Of Life

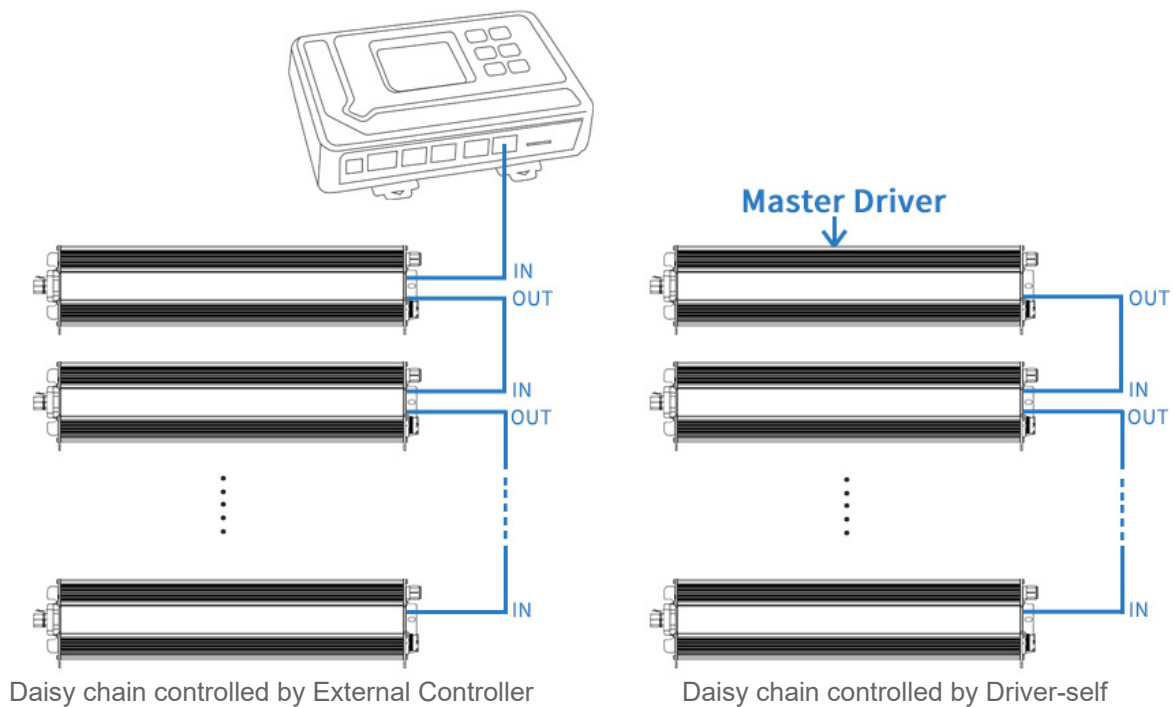
End-of-Life (EOL) is providing a visual notification to a user that the LED module has reached the end of manufacturer-specified life and that the replacement is recommended. Once active, an indication is given at each power-up of the driver, which the driver indicates this through a lower light output during the first 1 minute before normal operation is continued.

## ● Digital Dimming

Inventronics Digital Dimming is a UART (Universal Asynchronous Receive Transmitter) based communication protocol. Please refer to [Inventronics Digital Dimming](#) file for details.

## ● Daisy Chain Application

Daisy chain system can support synchronous dimming of up to 100 drivers due to unique dimming interface design, please pay attention to right sequence of 'IN' and 'OUT' port for RJ12 connection.



## Programming Connection Diagram

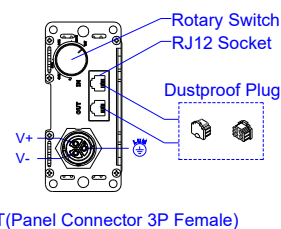
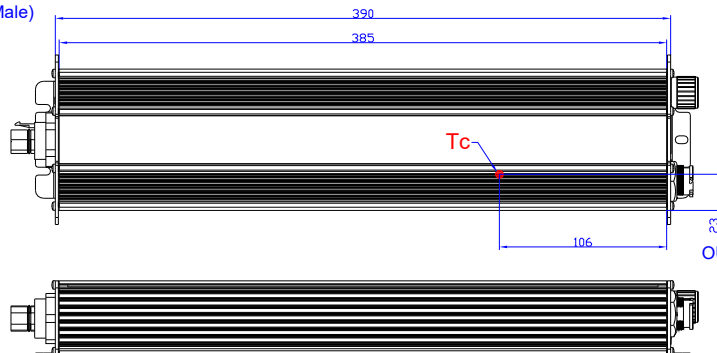
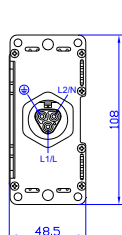


**Note:** The driver does not need to be powered on during the programming process.

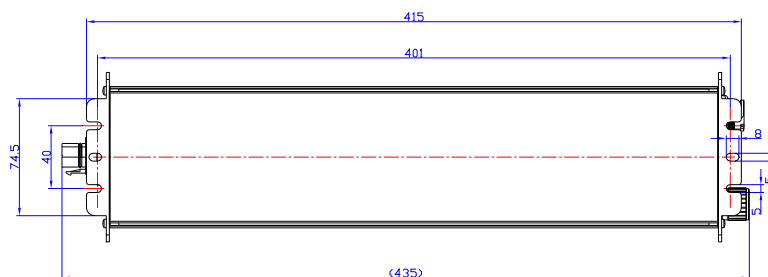
- Please refer to [PRG-MUL2](#) (Programmer) datasheet for details.

## Mechanical Outline

INPUT(Panel Connector 3P Male)



OUTPUT(Panel Connector 3P Female)



Unspecified tolerance:±1

**Note:** This driver features UL Wet Location, IP66 panel mount connectors to streamline wiring in the field while still supporting stringent environmental conditions. The **mating** push-lock are not supplied by Inventronics. Please contact Wieland and Amphenol LTW or one of their suppliers for assistance sourcing the mating pushlock.

| Location | Series            | Rating voltage/current | PN of connector on driver | PN of mating push-lock                             |
|----------|-------------------|------------------------|---------------------------|----------------------------------------------------|
| Vin      | Wieland RST20i3   | 600V/10A               | 96.032.1055.7             | 96.031.0055.7 (Spring)<br>or 96.031.4055.7 (Screw) |
| Vo       | ALTW X-Lok,C-Size | 300V/20A               | CC-03PMFS-QC800P          | CC-03BFMB-QL8APP                                   |

## RoHS Compliance

Our products comply with reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU, calling for the elimination of lead and other hazardous substances from electronic products.

## Revision History

| Change Date | Rev. | Description of Change   |      |         |
|-------------|------|-------------------------|------|---------|
|             |      | Item                    | From | To      |
| 2023-02-10  | A    | Datasheet Release       | /    | /       |
| 2023-12-28  | B    | Format                  | /    | Updated |
|             |      | Feature                 | /    | Updated |
|             |      | Safety &EMC Compliance  | /    | Updated |
|             |      | Inrush Current Waveform | /    | Updated |
|             |      | Dimming                 | /    | Updated |
|             |      | Mechanical Outline      | /    | Updated |