#### **Features**

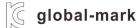
- Non-Isolated Class I Driver
- No Afterglow
- Dim-to-Off with Standby Power ≤ 0.5W @ 230Vac
- Ultra High Efficiency (Up to 98.0%)
- Full Power at Wide Output Current Range (Constant Power)
- Adjustable Output Current (AOC) with NFC
- DALI-2 and D4i Certified & DMX-RDM & 0-10V & PWM & Resistor & 3-Timer-Modes Dimmable
- Adjustable Dimming Curve
- INV Digital Dimming, UART Based Communication Protocol
- Hold Time Adjustable
- Fade Time Adjustable
- Always-on Auxiliary Power: 12Vdc, 250mA (Except DMX-RDM Mode)
- Minimum Dimming Level Supports 0.1% for DALI-2 and DMX-RDM
- Minimum Dimming Level Supports 1% for 0-10V, PWM, Resistor, Time Dimming and Digital Dimming
- Controls up to 44 fps
- Integrated Power Metering with High Accuracy up to ±1%
- Low Inrush Current
- Output Lumen Compensation
- End-of-Life Indicator
- Input Surge Protection: DM 10kV, CM 10kV
- All-Around Protection: OPP, IOVP, IUVP, OVP, SCP, OTP
- IP66/IP67 and UL Dry/Damp/Wet Location
- TYPE HL, for Use in a Class I, Division 2 Hazardous (Classified) Location
- 5 Years Warranty

















# **Description**

The NFM-1K2SxxxGx series is a 1200W, constant-current, programmable and IP66/IP67 rated LED driver that operates from 180-528Vac input with excellent power factor. Created for many lighting applications including high mast, sports, UV-LED and horticulture, etc. It provides an auxiliary voltage and dim-to-off functionality for powering low voltage, wireless controls. 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, overpower protection, input under voltage, input over voltage, output over voltage, short circuit, and over temperature.

#### **Models**

Adjustable Output	Full-Power Current	Default Output	Output Voltage	Max. Output	Typical	21	ical Factor	Model Number <sup>(3)(4)</sup>
Current Range (mA)	Range (mA) <sup>(1)</sup>	Current (mA)	Range (Vdc)	Power (W)	Efficiency <sup>(2)</sup>	220Vac	480Vac	model Number
2.4-4800	2400-4800	4800	150-500	1200	97.5%	0.99	0.95	NFM-1K2S480Gx

Notes: (1) Output current range with constant power at 1200W.

- (2) Measured at 100% load and 480Vac input (see below "General Specifications" for details).
- (3) Certified voltage range: 200-480Vac
- (4) x=G are UL Recognized, ENEC and CE, etc. models; x=T are UL Class P models.

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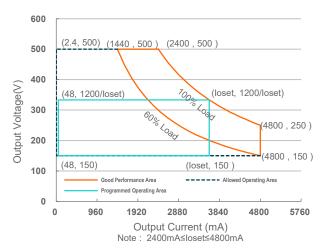
Specifications are subject to changes without notice.

All specifications are typical at 25  $^{\circ}\!\text{C}$  unless otherwise stated.

NFM-1K2SxxxGx

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# **I-V Operation Area**



# **Input Specifications**

Parameter	Min.	Тур.	Max.	Notes
Input AC Voltage	180 Vac	-	528 Vac	
Input DC Voltage	255 Vdc	-	500 Vdc	
Input Frequency	47 Hz	-	63 Hz	
	-	-	0.75 MIU	UL 8750; 480Vac/ 60Hz
Leakage Current			0.70 mA	IEC 60598-1; 480Vac/ 60Hz, grounding effectively
In next A.C. Command	-	-	6.94 A	Measured at 100% load and 200 Vac input.
Input AC Current	-	-	2.96 A	Measured at 100% load and 480 Vac input.
Inrush Current(I <sup>2</sup> t)	-	-	2.88 A <sup>2</sup> s	At 480Vac input, 25°C cold start, duration=14.3 ms, 10%lpk-10%lpk.
PF	0.90	-	-	At 200-480Vac, 50-60Hz,60%-100%Load
THD	-	-	20%	(720 - 1200W)
THD			10%	At 220-240Vac, 50-60Hz,75%-100%Load (900 - 1200W)

# **Output Specifications**

Parameter	Min.	Тур.	Max.	Notes
Output Current Tolerance	-5%loset		5%loset	At 100% load condition
Output Current Setting(loset) Range				
NFM-1K2S480Gx	48 mA	-	4800 mA	
Output Current Setting Range with Constant Power	0.400		4000	
NFM-1K2S480Gx	2400 mA	-	4800 mA	
Total Output Current Ripple (pk-pk)	-	2%lomax	5%lomax	At 100% load condition. 20 MHz BW

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**Output Specifications (Continued)** 

Parameter	Min.	Тур.	Max.	Notes
Output Current Ripple at < 200 Hz (pk-pk)	-	1%lomax	-	At 70-100% load condition. Only this component of ripple is associated with visible flicker.

			7.		
Output Current Ripple at < 200 Hz (pk-pk)		-	1%Iomax	-	At 70-100% load condition. Only this component of ripple is associated with visible flicker.
Startup Overshoot Current		-	-	10%lomax	At 100% load condition
No Load Out	tput Voltage NFM-1K2S480Gx	-	-	600 V	
Line Regulat	tion	-	-	±2.5%	Measured at 100% load
Load Regula	ation	-	-	±5.0%	
Turn-on Dela	ay Time	-	-	0.5 s	Measured at 0-10V/PWM/Resistor/Time/ Digital/DMX-RDM dimming mode, and 200 -480Vac input, 60%-100% Load
		-	-	1.0 s	Measured at DALI-2 dimming mode, and 200-480Vac input, 60%-100% Load
Temperature Coefficient of loset		-	0.03%/°C	-	Case temperature = 0°C ~Tc max
	12V Auxiliary Output Voltage	10.8 V	12 V	13.2 V	
Auxiliary is	12V Auxiliary Output Source Current	0 mA	-	250 mA	Return terminal is "DA-"
always-on except DMX-RDM Mode <sup>(1)</sup>	12V Auxiliary Output Transient Peak Current@6W	-	-	500 mA	500mA peak for a maximum duration of 2.2 ms in a 6.0ms period during which time the average should not exceed 250mA.
	12V Auxiliary Output Transient Peak Current@10W	-	-	850 mA	850mA peak for a maximum duration of 1.3 ms in a 5.2ms period during which time the average should not exceed 250mA.
DALI-2 Bus Power Supply <sup>(2)(3)</sup>	Integrated DALI-2 Bus Power Supply Voltage	12 Vdc	16 Vdc	20 Vdc	Voltage is depending on loading.
	Integrated DALI-2 Bus Power Maximum Supply Current		60 mA		
-	Integrated DALI-2 Bus Power Guaranteed Supply Current	50 mA			DALI-2 Bus Power Supply Voltage ≥12V

Notes: (1) When driver works in DMX-RDM mode, 12V auxiliary cannot be loaded and cannot be connected to the system.

- (2) DALI-2 bus power supply is enabled by default and can be disabled via programming interface.
- (3) DALI-2 bus power supply supports automatic shut-down and restart after short-circuit.

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## **General Specifications**

Parameter	Min.	Тур.	Max.	Notes
Efficiency at 220 Vac input: NFM-1K2S480Gx Io= 2400 mA Io= 4800 mA	94.5% 94.0%	96.5% 96.0%	-	Measured at 100% load and steady-state temperature in 25°C ambient; (Efficiency will be about 2.0% lower if measured immediately after startup.)
Efficiency at 277 Vac input: NFM-1K2S480Gx Io= 2400 mA Io= 4800 mA	95.0% 95.0%	97.0% 97.0%	- -	Measured at 100% load and steady-state temperature in 25°C ambient; (Efficiency will be about 2.0% lower if measured immediately after startup.)
Efficiency at 400 Vac input: NFM-1K2S480Gx Io= 2400 mA Io= 4800 mA	96.0% 95.0%	98.0% 97.0%	- -	Measured at 100% load and steady-state temperature in 25°C ambient; (Efficiency will be about 2.0% lower if measured immediately after startup.)
Efficiency at 480 Vac input: NFM-1K2S480Gx Io= 2400 mA Io= 4800 mA	95.5% 95.0%	97.5% 97.0%		Measured at 100% load and steady-state temperature in 25°C ambient; (Efficiency will be about 2.0% lower if measured immediately after startup.)
Power Monitoring Accuracy	-1%	-	1%	Measured at 480Vac input and 100% Load
Standby Power	-	-	0.5 W	Measured at 230Vac/50Hz; Dimming off when Bus Power Supply is disabled
МТВГ	-	222,000 Hours	-	Measured at 480Vac input, 80%load and 25°C ambient temperature (MIL-HDBK-217F)
Lifetime	-	108,000 Hours	-	Measured at 480Vac input, 80%Load and 70°C case temperature; See lifetime vs. To curve for the details
		73,000 Hours	-	Measured at 220Vac input, 100%Load and 40°C ambient temperature
Operating Case Temperature for Safety Tc s	-40°C	-	+90°C	·
Operating Case Temperature for Warranty Tc_w	-40°C	-	+80°C	Case temperature for 5 years warranty Humidity: 10% RH to 95% RH
Storage Temperature	-40°C	-	+85°C	Humidity: 5%RH to 95%RH
Dimensions Inches (L × W × H) Millimeters (L × W × H)	11.34 × 4.25 × 1.91 288 × 108 × 48.5			With mounting ear 12.20 × 4.25 × 1.91 310 × 108 × 48.5
Net Weight	-	2982 g	-	

# **Dimming Specifications**

Parameter		Min.	Тур.	Max.	Notes
DALI (Default) and	Dimming Output range	0.1%loset	-	loset	2400 mA ≤ loset ≤ 4800 mA
DMX-RDM	Diffiffing Output lange	2.4 mA	-	loset	48 mA ≤ loset < 2400 mA
0-10V&PWM &Resistor&	Dimming Output range	1%loset	-	loset	2400 mA ≤ loset ≤ 4800 mA
Digital Dimming		24 mA	-	loset	48 mA ≤ loset < 2400 mA

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# **Dimming Specifications (Continued)**

	Parameter	Min.	Тур.	Max.	Notes	
DALL	DA+, DA- High Level	9.5V	16V	22.5V		
DALI Dimming Mode	DA+, DA- Low Level	-6.5V	0V	6.5V		
	DA+, DA- Current	0mA	-	2mA		
	DMX+ to DMX-	-6 V	-	6 V		
	DMX+ to Chassis	22M ohm	-	-		
DMX-RDM	DMX- to Chassis	22M ohm	-	-		
Dimming Mode	Logic 0 Input	-	-	-0.2 V	DMX+ to DMX-	
	Logic 1 Input	0.2 V	-	-	DMX+ to DMX-	
	Communication Baud Rate	-	250k bps	-		
	Absolute Maximum Voltage on the Vdim (+) Pin	-20 V	-	20 V		
	Source Current on Vdim (+)Pin	90 uA	100 uA	110 uA	Vdim(+) = 0 V	
	Recommended Dimming Input Range	0 V	-	10 V		
	Dim off Voltage	0.35 V	0.5 V	0.65 V	0.401/ 1: .	
	Dim on Voltage	0.55 V	0.7 V	0.85 V	- 0-10V dimming mode.	
	Hysteresis	-	0.2 V	-		
0.40\/0.5\40	PWM_in High Level	3 V	-	10 V		
0-10V&PWM Dimming	PWM_in Low Level	-0.3 V	-	0.6 V		
Mode	PWM_in Frequency Range	200 Hz	-	3 KHz		
	PWM_in Duty Cycle	1%	-	99%		
	PWM Dimming off (Positive Logic)	3%	5%	8%	Dimming mode set to PWM in Inventronics Programing Software.	
	PWM Dimming on (Positive Logic)	5%	7%	10%	Shiromoo i rogrammy conware.	
	PWM Dimming off (Negative Logic)	92%	95%	97%		
	PWM Dimming on (Negative Logic)	90%	93%	95%	-	
	Hysteresis	-	2%	-		

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## **Safety & EMC Compliance**

Safety Category	Standard		
UL/CUL	UL 8750,CAN/CSA-C22.2 No. 250.13		
ENEC	EN 61347-1, EN 61347-2-13		
CE	EN 61347-1, EN 61347-2-13 EN 301 489-1 EN 301 489-3 EN 300 330 EN 62479/EN 50663/EN 50665/EN 50364		
СВ	IEC 61347-1, IEC 61347-2-13		
CCC	GB 19510.1, GB 19510.14		
KC	KC 61347-1, KC 61347-2-13		
global-mark	AS/NZS 61347.1, AS/NZS 61347.2.13		
Performance	Standard		
ENEC	EN IEC 62384		
EMI Standards	Notes		
EN IEC 55015/GB/T 17743/KS C 9815 <sup>(1)</sup>	Conducted emission Test &Radiated emission Test		
EN IEC 61000-3-2/GB 17625.1	Harmonic current emissions		
EN 61000-3-3	Voltage fluctuations & flicker		
	ANSI C63.4 Class B		
FCC Part 15 <sup>(1)</sup>	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.		
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		
	AC mains Surge Immunity Test: AC Power Line: Differential Mode 10 kV, Common Mode 10 kV		
EN 61000-4-5	Output - Common Mode: 3kV Vo+ to PE, Vo- to PE - Differential Mode: 1kV (V+ to V- )		
	Dimming -Common Mode: 3kV DA+ to PE - Differential Mode: 1kV DA+ to DA-		
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/KS C 9547	Electromagnetic Immunity Requirements Applies To Lighting Equipment		

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1200W Non-Isolated Programmable Driver

## **Safety & EMC Compliance (Continued)**

DALI-2 Standards	Notes
DALI-2 <sup>(2)</sup>	IEC 62386-101, -102 & -207

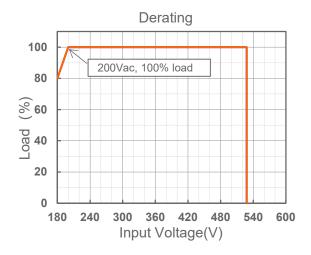
Note: (1) This LED driver meets the EMI specifications above, but EMI performance of a luminaire that contains it depends also on the other devices connected to the driver and on the fixture itself.

(2) DALI Parts: 101, 102, 207, 250, 251, 252, 253.

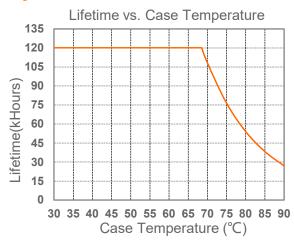
#### Isolation Levels between Different Circuits:

	AC Input	DC Output	Dimming (SELV)	Housing
AC Input	/	No isolation	Double	Basic
DC Output	No isolation	/	Double	Basic
Dimming (SELV)	Double	Double	/	Basic
Housing	Basic	Basic	Basic	/

# **Derating**



## Lifetime vs. Case Temperature



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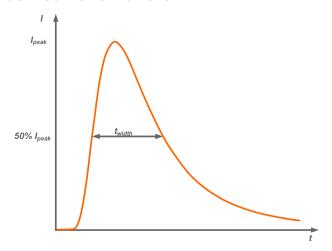
All specifications are typical at 25  $^{\circ}$ C unless otherwise stated.

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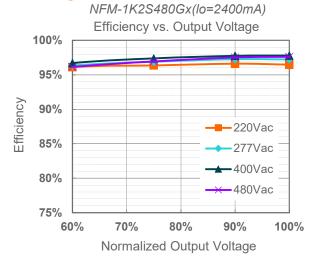
## **Inrush Current Waveform**

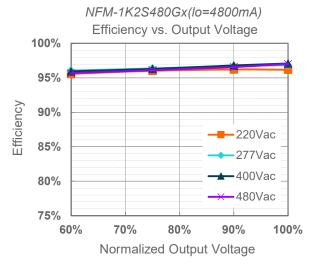


Input AC Voltage	I <sub>peak</sub>	t <sub>width</sub> (@ 50% Ipeak)
220Vac	6.05A	4.72ms
277Vac	8.35A	4.24ms
400Vac	12.5A	3.84ms
480Vac	16.4A	4.00ms

MCB	Tripping Curves	В	В	В	В	С	С	С	С
MCB	Rated Current	10A	16A	20A	25A	10A	16A	20A	25A
The Number of LED Driver can be Configured	220Vac	1	1	2	2	1	1	2	3
	277Vac	1	2	2	3	1	2	3	3
	400Vac	1+1+1	1+1+1	2+2+2	2+2+2	1+1+1	2+2+2	2+2+2	3+3+3
	480Vac	1+1+1	2+2+2	2+2+2	3+3+3	1+1+1	2+2+2	3+3+3	3+3+3

## **Efficiency vs. Load**

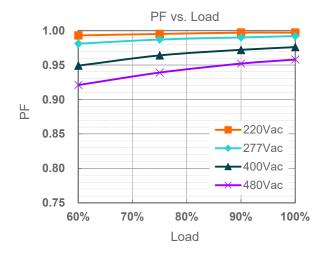




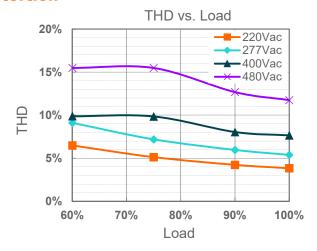
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### **Power Factor**



### **Total Harmonic Distortion**



## **Protection Functions**

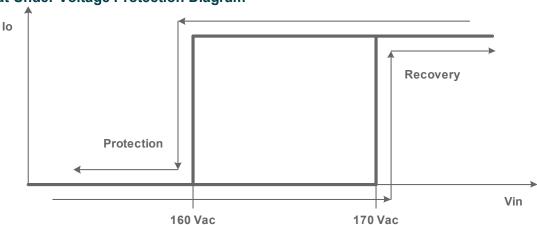
Parameter	Notes					
Over Temperature Protection	Decreases output current, returning to normal after over temperature is removed.					
Short Circuit Protection	Auto Recovery. No damage will occur when any output is short circuited. The output shall return to normal when the fault condition is removed.					
Over Voltage Protection	Limits output voltage at no load and in case the normal voltage limit fails.					
Over Power protection	Exceeds 1284W (typical), the driver will decrease this channel output current automatically and shall return original current when the fault condition is removed.					

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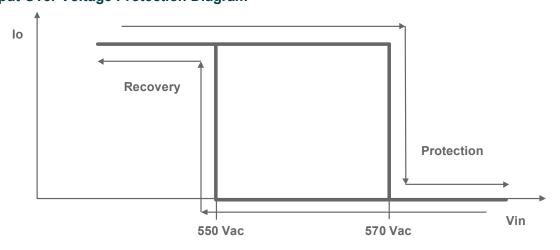
# **Protection Functions (Continued)**

		·					
Parameter		Min.	Тур.	Max.	Notes		
Input Under Voltage Protection (IUVP)	Input Under Voltage Protection	150 Vac	160 Vac	170 Vac	Turn off the output when the input voltage falls below protection voltage.		
	Input Under Voltage Recovery	160 Vac	170 Vac	180 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.		

# Input Under Voltage Protection Diagram



## Input Over Voltage Protection Diagram



### Strobe function

This driver supports strobe function up to 44 fps from 100% dimming to 0% change forth and back. In order to protect relays reliability, the relays will still keep 3s 'ON' status when receiving the dim-to-off command and then enter "OFF' status' without receiving dimming ON command, but it will immediately operates back to "ON" status if receiving the dimming on command, so the relays will not operate 'ON' and 'OFF' frequently in fast strobe operation within 3s duration time in default mode. The default 3s can be adjusted by programming interface or commands.

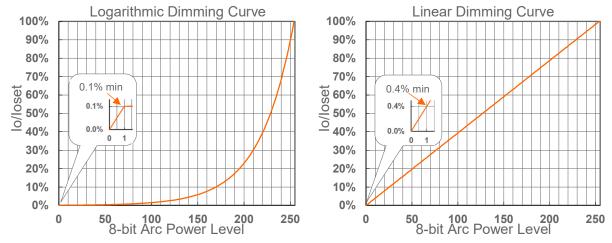


### 44fps = 44 dimming status per second

## **Dimming**

## DALI-2 Dimming

The recommended implementation of the dimming control is provided below.



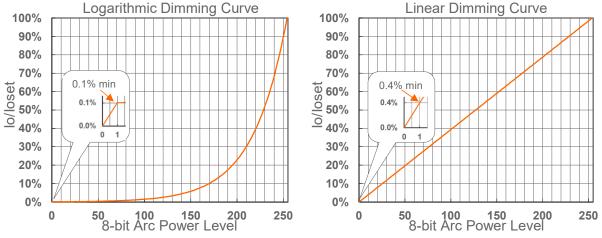
Implementation: DALI-2 Dimming

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# **Dimming (DMX-RDM Dimming Mode)**

### DMX-RDM Dimming

The recommended implementation of the dimming control is provided below.



Implementation: DMX-RDM Dimming

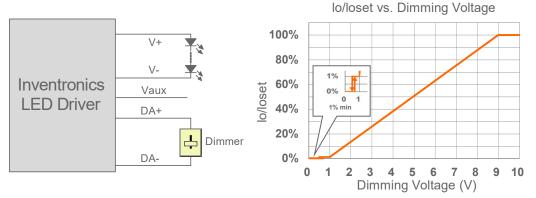
#### Notes:

- The compatible on control system list please refer to: <u>DMX-RDM Dimming Compatible Controller System List.</u>
- 2. Up to 32 drivers may be daisy-chained, terminated by a 120 ohms resistor (connected between DMX+ & DMX- at the last driver)
- 3. 300m maximum length between driver and master
- 4. 100m maximum between drivers
- 5. For best performance, a characteristic impedance of 120 ohms should be maintained for the entire length of the control line.

## **Dimming (0-10V&PWM&Resistor Dimming Mode)**

#### 0-10V Dimming

The recommended implementation of the dimming control is provided below.

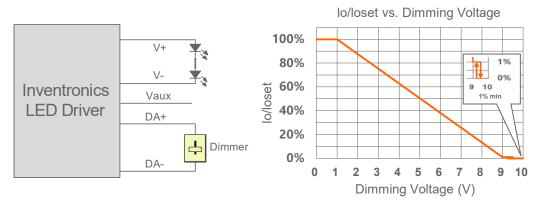


Implementation 1: Positive logic

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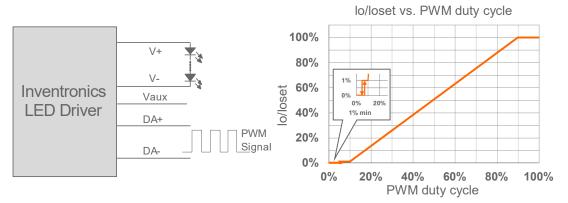
Implementation 2: Negative logic

#### Notes:

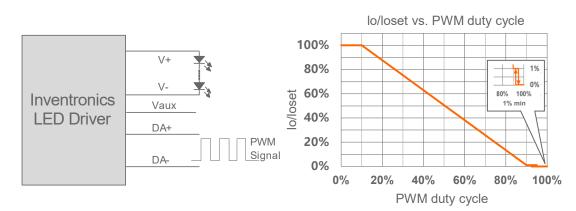
- 1. Do NOT connect DA- to the output V- or V+, otherwise the driver will not work properly.
- 2. The dimmer can also be replaced by an active 0-10V voltage source signal or passive components like zener.
- 3. When 0-10V negative logic dimming mode and DA+ is open, the driver will dim to off and be standby.

#### PWM Dimming

The recommended implementation of the dimming control is provided below.



Implementation 3: Positive logic



Implementation 4: Negative logic

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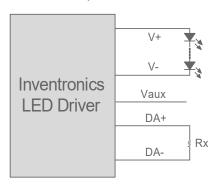
1200W Non-Isolated Programmable Driver

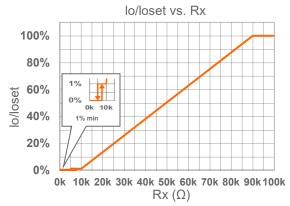
#### Notes:

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

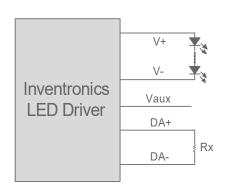
### Resistor Dimming

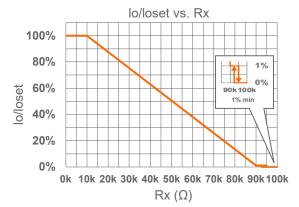
The recommended implementation of the dimming control is provided below.





Implementation 5: Positive logic





Implementation 6: Negative logic

#### Notes:

1. Do NOT connect DA- to the output V- or V+, otherwise the driver will not work properly.

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2. When resistor negative logic dimming mode and DA+ is open, the driver will dim to off and be standby.

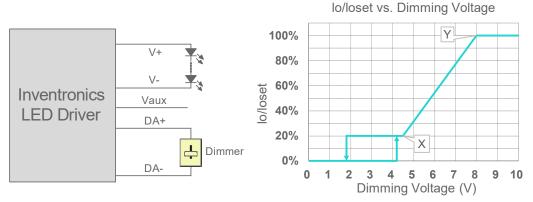
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1200W Non-Isolated Programmable Driver

#### Adjustable Dimming Curve

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



Implementation 7: Positive logic

#### Notes:

- 1. Do NOT connect DA- 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.</li>
- **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.

#### 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.

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Specifications are subject to changes without notice.

#### 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 <u>Inventronics Digital Dimming</u> file for details.

### **Programming Connection Diagram**



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

### Please refer to PRG-NFC-H or PRG-NFC-D2 (Programmer) datasheet for details.

### **Mechanical Outline**

NFM-1K2S480GG

INPUT(SOOW 17AWG/3C & H07RN F 3\*1.0mm² ⊕ 9.8)

DIMMING(IL121996 22AWG/3C ⊕ 5.0)

PB4

1022

PB4

1032

OUTPUT(SOOW 17AWG/3C & H07RN F 2\*1.0mm² ⊕ 9.3)

Unspecified tolerance:±1

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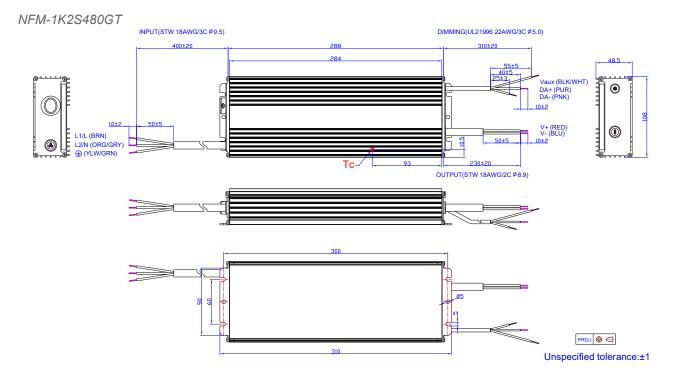
Specifications are subject to changes without notice.

All specifications are typical at 25  $^{\circ}\text{C}$  unless otherwise stated.

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#### **Installations**

To download the Installation Guidelines, please click here: <u>Inventronics Considerations for Non-Isolated LED Drivers.</u>

## **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.

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Rev.B

1200W Non-Isolated Programmable Driver

# **Revision History**

Change Date	Rev.	Description of Change						
		Item	From	То				
2024-07-09	А	Datasheet Release	/	/				
2025-07-17	В	KC/KCC logo	/	Added				
		Safety & EMC Compliance	/	Updated				
		Dimming	/	Updated				