NFS-900SxxxBC

Rev.E

900W Non-Isolated Single Channel Programmable IP66 Driver

Features

- Non-Isolated Class I Driver
- No Afterglow
- Dim-to-Off with Standby Power ≤ 0.5W @ 230Vac
- Dimming Range: 0.1%-100%
- Max Remote Distance Up to 300 Meters (Dimming and Output)
- Ultra High Efficiency (Up to 97.5%)
- Full Power at Wide Output Current Range (Constant Power)
- Adjustable Output Current (AOC) with NFC
- DALI-2 and D4i Certified & DMX-RDM & 3-Timer-Modes Dimmable
- DALI-2/DMX-RDM Controls Up to 44 fps
- Integrated Power Metering with High Accuracy up to ±1%
- Thermal Sensing and Protection for LED Module
- Low Inrush Current
- Output Lumen Compensation
- End-of-Life Indicator
- Input Surge Protection: DM 10kV, CM 10kV
- All-Around Protection: IOVP, IUVP, OVP, SCP, OTP, OPP
- IP66
- IK08 Enclosure
- 5 Years Warranty











Description

The NFS-900SxxxBC series is a 900W, single channel, constant-current, programmable and IP66 LED driver that operates from 180-528 Vac input with excellent power factor. Created for many lighting applications including sports, high mast, UV-LED, aquaculture, and horticulture, etc. The dimming control supports two-way communication via DALI-2 and complies with D4i, furthermore it incorporates DMX-RDM dimming. 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	Full-Power Current	Default Output	Output Voltage	Max. Output	Typical		ical Factor	Model Number ⁽³⁾
Current Range (mA)	Range (mA) ⁽¹⁾	Current (mA)	Range (Vdc)	Power (W)	Efficiency ⁽²⁾	220Vac	480Vac	Model Nulliber
1.8-3600	1800-3600	1800	150-500	900	97.5%	0.99	0.95	NFS-900S360BC

Notes: (1) Output current range with constant power at 900W

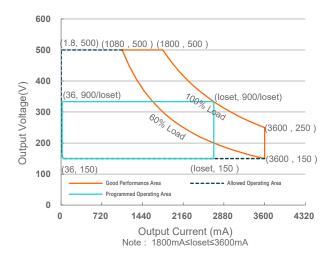
- (2) Measured at 100% load and 480Vac input (see below "General Specifications" for details).
- (3) Certified voltage range: 200-480Vac

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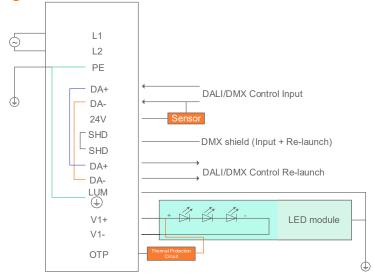
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I-V Operation Area



Driver Function Diagram



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	
Landana Oramant	-	-	0.75 MIU	UL 8750; 480Vac/ 60Hz
Leakage Current	-	-	0.70 mA	IEC 60598-1; 480Vac/ 60Hz, grounding effectively

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Input Specifications (Continued)

Parameter	Min.	Тур.	Max.	Notes	
Innut AC Current	-	-	4.68 A	Measured at 100% load and 220 Vac input.	
Input AC Current	-	-	2.23 A	Measured at 100% load and 480 Vac input.	
Inrush Current(I ² t)	-	-	3.17 A ² s	At 480Vac input, 25°C cold start, duration=15.7 ms, 10%lpk-10%lpk.	
PF	0.90	-	-	At 200-480Vac, 50-60Hz, 60%-100% Load	
THD	-	-	20%	(540 - 900W)	
THD	-	-	10%	At 220-240Vac, 50-60Hz, 75%-100% Load (675 - 900W)	

Output Specifications

Parameter	Min.	Тур.	Max.	Notes
Output Current Tolerance	-5%loset	-	5%loset	100% load
Output Current Setting(loset) Range NFS-900SxxxBC	36 mA	-	3600 mA	
Output Current Setting Range with Constant Power NFS-900SxxxBC	1800 mA	-	3600 mA	
Total Output Current Ripple (pk-pk)	-	2%lomax	5%lomax	100% load, 20 MHz BW
Output Current Ripple at < 3000 Hz (pk-pk)	-	1%lomax	-	At 70-100% load condition. Only this component of ripple is associated with visible flicker.
Startup Overshoot Current	-	-	10%lomax	100% load
No Load Output Voltage	-	-	600 V	
Line Regulation	-	-	±2.5%	100% load
Load Regulation	-	-	±5.0%	
Turn-on Delay Time	-	-	0.5 s	Measured at DMX-RDM/Time 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

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Output Specifications (DALI Dimming Mode)

Parameter	Min.	Тур.	Max.	Notes
24\/ Auvilian/ Output \/altaga	21.6 V	24 V	26.4 V	P _{load} ≥0.1W
24V Auxiliary Output Voltage	-	-	30 V	P _{load} <0.1W
24V Auxiliary Output Voltage ripple (pk-pk)	-	-	1.0 V	P _{load} ≥0.1W,f _{ripple} >10kHz
24V Auxiliary Output Source Current	0 mA	-	125 mA	Return terminal is "DA-"
24V Auxiliary Output Transient Peak Current@6W	-	-	250 mA	250mA peak for a maximum duration of 2.2ms in a 6.0ms period during which time the average should not exceed 125mA.
24V Auxiliary Output Transient Peak Current@10W	-	-	425 mA	425mA peak for a maximum duration of 1.3ms in a 5.2ms period during which time the average should not exceed 125mA.
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, 24V 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.

General Specifications

Parameter	Min.	Тур.	Max.	Notes
Efficiency at 220 Vac input: lo= 1800 mA lo= 3600 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: lo= 1800 mA lo= 3600 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: lo= 1800 mA lo= 3600 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.)
Efficiency at 480 Vac input: lo= 1800 mA lo= 3600 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
MTBF	-	228,000 Hours	-	Measured at 480Vac input, 80%Load and 25°C ambient temperature (MIL-HDBK-217F)
Lifetime	-	100,000 Hours	-	Measured at 480Vac input, 80%Load and 70°C case temperature; See lifetime vs. Tc curve for the details

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Specifications are subject to changes without notice.

All specifications are typical at 25 °C unless otherwise stated.

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General Specifications (Continued)

Parameter	Min.	Тур.	Max.	Notes
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)	12.20 × 5.71 × 2.76 310 × 145 × 70			
Net Weight	-	3350 g	-	

Dimming Specifications

	Parameter	Min.	Тур.	Max.	Notes
	DA+, DA- High Level	9.5 V	16 V	22.5 V	
DALI	DA+, DA- Low Level	-6.5 V	0 V	6.5 V	
Dimming Mode	DA+, DA- Current	0 mA	-	2 mA	
(Default)	Dimming Output	0.1%loset	-	loset	1800 mA ≤ loset ≤ 3600 mA
	Range	1.8 mA	-	loset	36 mA ≤ loset < 1800 mA
	DMX+ to DMX-	-6 V	-	6 V	
	DMX+ to Chassis	22M ohm	-	-	
	DMX- to Chassis	22M ohm	-	-	
DMX- RDM	Logic 0 Input	-	-	-0.2 V	DMX+ to DMX-
Dimming Mode	Logic 1 Input	0.2 V	-	-	DMX+ to DMX-
	Communication Baud Rate	-	250k bps	-	
	Dimming Output	0.1%loset	-	loset	1800 mA ≤ loset ≤ 3600 mA
	Range	1.8 mA	-	loset	36 mA ≤ loset < 1800 mA

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 ⁽¹⁾
CE	EN 61347-1, EN 61347-2-13 ⁽¹⁾ EN 301 489-1 EN 301 489-3 EN 300 330 EN 62479/EN 50663/EN 50665/EN 50364

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Specifications are subject to changes without notice.

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Safety & EMC Compliance (Continued)

Safety Category	Standard			
СВ	IEC 61347-1, IEC 61347-2-13 ⁽¹⁾			
CCC	GB 19510.1, GB 19510.14			
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 ⁽²⁾	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 ⁽²⁾	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			
Emo Staridards	Notes			
EN 61000-4-2	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge			
EN 61000-4-2	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge Radio-Frequency Electromagnetic Field Susceptibility Test-RS Electrical Fast Transient / Burst-EFT			
EN 61000-4-2 EN 61000-4-3	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge Radio-Frequency Electromagnetic Field Susceptibility Test-RS Electrical Fast Transient / Burst-EFT AC mains Surge Immunity Test: AC Power Line: Differential Mode 10 kV, Common Mode 10 kV			
EN 61000-4-2 EN 61000-4-3 EN 61000-4-4	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge Radio-Frequency Electromagnetic Field Susceptibility Test-RS Electrical Fast Transient / Burst-EFT AC mains Surge Immunity Test: AC Power Line: Differential Mode 10 kV, Common Mode 10 kV - Common Mode: 3kV V+ to PE V- to PE - Differential Mode: 1kV (V+ to V-)			
EN 61000-4-2 EN 61000-4-3	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge Radio-Frequency Electromagnetic Field Susceptibility Test-RS Electrical Fast Transient / Burst-EFT AC mains Surge Immunity Test: AC Power Line: Differential Mode 10 kV, Common Mode 10 kV - Common Mode: 3kV V+ to PE V- to PE			
EN 61000-4-2 EN 61000-4-3 EN 61000-4-4	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge Radio-Frequency Electromagnetic Field Susceptibility Test-RS Electrical Fast Transient / Burst-EFT AC mains Surge Immunity Test: AC Power Line: Differential Mode 10 kV, Common Mode 10 kV Output - Common Mode: 3kV V+ to PE V- to PE - Differential Mode: 1kV (V+ to V-) Dimming - Common Mode: 3kV DA+/DA- to PE			
EN 61000-4-2 EN 61000-4-3 EN 61000-4-4	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge Radio-Frequency Electromagnetic Field Susceptibility Test-RS Electrical Fast Transient / Burst-EFT AC mains Surge Immunity Test: AC Power Line: Differential Mode 10 kV, Common Mode 10 kV Output - Common Mode: 3kV V+ to PE V- to PE - Differential Mode: 1kV (V+ to V-) Dimming - Common Mode: 3kV DA+/DA- to PE - Differential Mode: 1kV DA+ to DACommon Mode: 3kV OTP to PE			
EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge Radio-Frequency Electromagnetic Field Susceptibility Test-RS Electrical Fast Transient / Burst-EFT AC mains Surge Immunity Test: AC Power Line: Differential Mode 10 kV, Common Mode 10 kV Output - Common Mode: 3kV V+ to PE V- to PE - Differential Mode: 1kV (V+ to V-) Dimming - Common Mode: 3kV DA+/DA- to PE - Differential Mode: 1kV DA+ to DA- OTP - Common Mode: 3kV OTP to PE - Differential Mode: 1KV OTP to V+			
EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge Radio-Frequency Electromagnetic Field Susceptibility Test-RS Electrical Fast Transient / Burst-EFT AC mains Surge Immunity Test: AC Power Line: Differential Mode 10 kV, Common Mode 10 kV Output - Common Mode: 3kV V+ to PE V- to PE - Differential Mode: 1kV (V+ to V-) Dimming - Common Mode: 3kV DA+/DA- to PE - Differential Mode: 1kV DA+ to DA- OTP - Common Mode: 3kV OTP to PE - Differential Mode: 1KV OTP to V+ Conducted Radio Frequency Disturbances Test-CS			
EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge Radio-Frequency Electromagnetic Field Susceptibility Test-RS Electrical Fast Transient / Burst-EFT AC mains Surge Immunity Test: AC Power Line: Differential Mode 10 kV, Common Mode 10 kV Output - Common Mode: 3kV V+ to PE V- to PE - Differential Mode: 1kV (V+ to V-) Dimming - Common Mode: 3kV DA+/DA- to PE - Differential Mode: 1kV DA+ to DA- OTP - Common Mode: 3kV OTP to PE - Differential Mode: 1KV OTP to V+ Conducted Radio Frequency Disturbances Test-CS Power Frequency Magnetic Field Test			
EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8 EN 61000-4-11	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge Radio-Frequency Electromagnetic Field Susceptibility Test-RS Electrical Fast Transient / Burst-EFT AC mains Surge Immunity Test: AC Power Line: Differential Mode 10 kV, Common Mode 10 kV Output - Common Mode: 3kV V+ to PE V- to PE - Differential Mode: 1kV (V+ to V-) Dimming - Common Mode: 3kV DA+/DA- to PE - Differential Mode: 1kV DA+ to DA- OTP - Common Mode: 3kV OTP to PE - Differential Mode: 1KV OTP to V+ Conducted Radio Frequency Disturbances Test-CS Power Frequency Magnetic Field Test Voltage Dips			

Note: (1) This LED driver complies with IEC/EN 61347-2-13, Annex J (EL mark) requirements for AC emergency lighting LED drivers. It is suitable for emergency luminaries (IEC 60598-2-22), but not intended for use in high-risk emergency lighting locations as defined by the ISO 30061.

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⁽²⁾ 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.

Rev.B

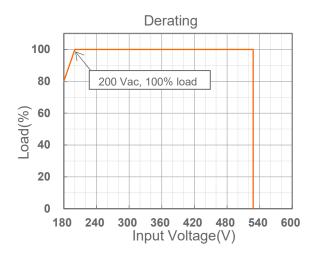
900W Non-Isolated Single Channel Programmable IP66 Driver

(3) DALI parts: 101, 102, 150, 207, 250, 251, 252, 253.

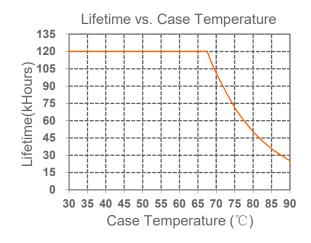
Isolation Levels between Different Circuits:

	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	1

Derating



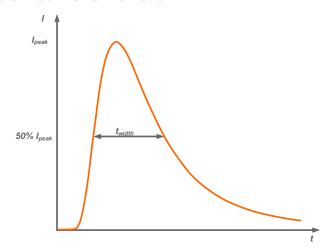
Lifetime vs. Case Temperature



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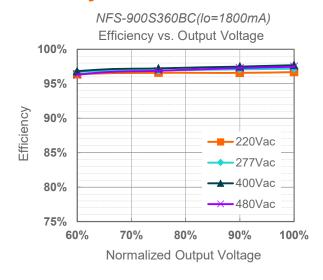
Inrush Current Waveform

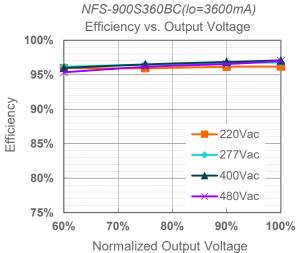


Input AC Voltage	I _{peak}	t _{width} (@ 50% Ipeak)
220Vac	7.45A	4.52ms
277Vac	9.70A	4.48ms
400Vac	13.6A	4.48ms
480Vac	16.4A	4.48ms

MCB	Tripping Curves	В	В	В	В	С	С	С	С
MCB	Rated Current	10A	16A	20A	25A	10A	16A	20A	25A
	220Vac	1	2	2	3	1	2	3	4
The Number of LED Driver can be Configured	277Vac	1	2	3	4	2	3	4	5
	400Vac	1+1+1	2+2+2	2+2+2	3+3+3	1+1+1	2+2+2	3+3+3	4+4+4
	480Vac	1+1+1	2+2+2	3+3+3	4+4+4	2+2+2	3+3+3	4+4+4	5+5+5

Efficiency vs. Load



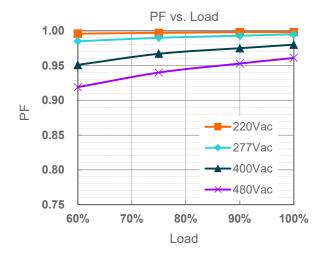


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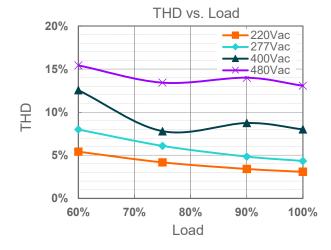
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Power Factor



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	Each channel exceeds 955W (typical), the driver will decrease this channel output current automatically.			

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Rev F

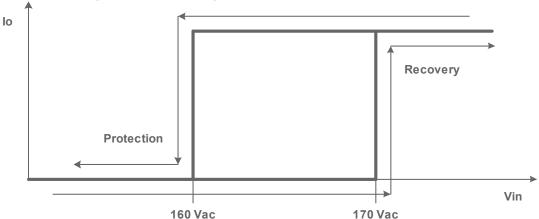
900W Non-Isolated Single Channel Programmable IP66 Driver

Protection Functions (Continued)

Parameter		Min.	Тур.	Max.	Notes
Emergency Protection (1)		-40°C	-	+55°C	EOF _w =1
		-	-	+80°C	The driver can stably and continuously output 20% of its rated power in an environment of 80°C, and the EOF _w = 0.2
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

Note: (1) EOF_w is "Emergency Output Factor", means the ratio of the output power of the control device in emergency mode to those under normal lighting conditions.

Input Under Voltage Protection Diagram



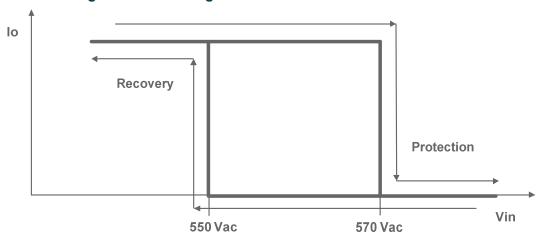
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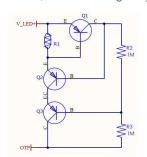
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Input Over Voltage Protection Diagram



External Thermal Protection

This needs an external circuit which locates on the hottest part of LEDs to protect the whole luminaires when the temperature exceeds the ratings. The circuit will be connected by V+ LED and OTP terminal on driver. The default protection temperature point is 90°C, it can be changed by Inventronics programmer along with the actual target.



Reference	Description	Recommendation		
Q1/Q2/Q3	500V PNP high- voltage transistor	NEXPERIA / PBHV9050T		
R1	ΝΤС 10ΚΩ	0603 SMD 3% EPCOS / TDK B57371V2103H060 B25-100=4480		
R2/R3	1MΩ Resistor	1M 1% -55~155°C 0805/1206 200V		

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.



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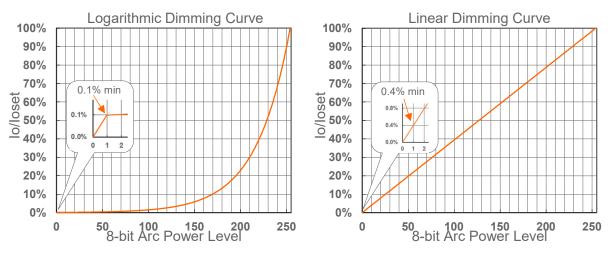
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Dimming (DALI Dimming Mode)

DALI-2 Dimming

The recommended implementation of the dimming control is provided below.

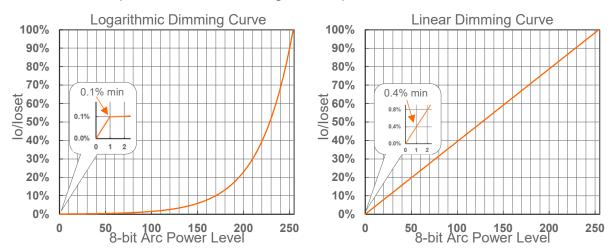


Implementation: DALI-2 Dimming

Dimming (DMX-RDM Dimming Mode)

DMX-RDM Dimming

The recommended implementation of the dimming control is provided below.



Implementation: DMX-RDM Dimming

Notes:

- 1. The compatible on control system list please refer to: DMX-RDM Dimming Compatible Controller System List.
- 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
- For best performance, a characteristic impedance of 120 ohms should be maintained for the entire length of the control line.

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Specifications are subject to changes without notice.

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Rev.B

900W Non-Isolated Single Channel Programmable IP66 Driver

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.

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.

Cable Gland Diagram



Connection	Cable Gland	Toque (N•m)	Cable Diameter (mm)	Cable AWG	Cable Section (mm²)	Strip Length (mm)
AC Input	M20	4	6.5-10.2	18-14	1.0-2.5	
DC Output	M20	4	6.5-10.2	18-14	1.0-2.5	9-10
DALI/DMX	M16	2.5	6.5-10	18-16	0.75-1.5	9-10
DALI/DMX Re-launch	M16	2.5	6.5-10	18-16	0.75-1.5	

Note: An additional sealing accessory with detailed specifications listed in the table below, is included:



Location	Fitting Cable Diameter(mm)		
AC input/DC output	12.6-14		

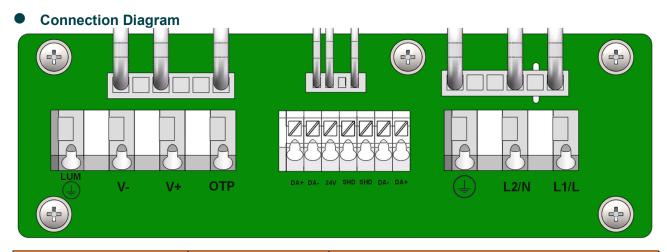
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900W Non-Isolated Single Channel Programmable IP66 Driver



Number	Label	Description	
1	LUM (±)	Protection Earth for LED Module	
2	V-	LED- Connection	
3	V+	LED+ Connection	
4	OTP	Thermal protection input	
5	DA+	Reused,DALI/DMX input+	
6	DA-	Reused,DALI/DMX input-	
7	24V	24V auxiliary source	
8	SHD	DMX SHIELD input	
9	SHD	DMX SHIELD output	
10	DA-	DALI/DMX reused Re-launch output-	
11	DA+	DALI/DMX reused Re-launch output+	
12	PE	Protection Earth	
13	L2/N	AC input L2/N	
14	L1/L	AC input L1/L	

Note: DALI function and DMX function cannot be used at the same time.

Programming Connection Diagram



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

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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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Tel: 86-571-56565800

Fax: 86-571-86601139

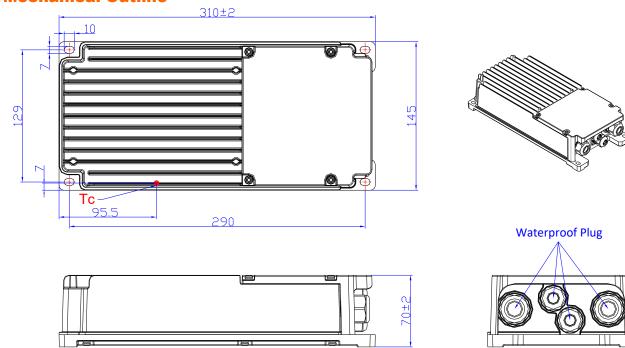
sales@inventronicsglobal.com

Rev.B

900W Non-Isolated Single Channel Programmable IP66 Driver

Please refer to <u>PRG-NFC-H</u> or <u>PRG-NFC-D2</u> (Programmer) datasheet for details.

Mechanical Outline



PROJ:

Unspecified tolerance:±1

Installations

To download the Installation Guidelines, please click here: <u>Inventronics Considerations for Non-Isolated LED Drivers</u> and <u>Installation Guidelines for NFS-900 NSS-1K2 Driver</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.L

900W Non-Isolated Single Channel Programmable IP66 Driver

Revision History

Change Date Rev	Dour	Description of Change					
	Rev.	Item	From	То			
2025-02-20	А	Datasheet Release	/	/			
	В	EL logo	/	Added			
		Output Specifications	/	Updated			
2025-05-16		Safety & EMC Compliance	/	Updated			
		Protection Functions	/	Updated			
		Cable Gland Diagram	/	Updated			