EUM-200SxxxLx

Rev. C

Features

- Full Power at Wide Output Current Range (Constant Power)
- Adjustable Output Current (AOC) with NFC
- Isolated 0-10V/PWM/3-Timer-Modes Dimmable
- INV Digital Dimming, UART Based Communication Protocol Compliant with T/CSA-051
- Dim-to-Off with Standby Power ≤ 0.5 W
- Always-on Auxiliary Power: 12Vdc, 250mA, 3W (Transient Peak Power up to 10W)
- Integrated Power Monitoring with High Accuracy up to $\pm 1\%$
- Output Lumen Compensation
- End-of-Life Indicator
- Thermal Sensing and Protection for LED Module
- Input Surge Protection: DM 6kV, CM 10kV
- All-Around Protection: IUVP, IOVP, OVP, SCP, OTP
- IP66 / IP67 and UL Dry / Damp / Wet Location
- TYPE HL, for Use in a Class I, Division 2 Hazardous (Classified) Location
- 7 Years Warranty





Description

The *EUM-200SxxLx* series is a 200W, constant-current, NFC programmable and IP66/IP67 rated LED driver that operates from 90-305Vac input with excellent power factor. Created for smart lighting and health monitoring applications, this family provides integrated AC power monitoring with an auxiliary voltage and dim-to-off functionality for powering low voltage, wireless controls. The dimming control supports 0-10V dimming as well as two-way communication via Digital Dimming, a UART based communication protocol that complies with T/CSA-051. 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	Input Voltage	Output Voltage	Max. Output	Typical Efficiency	Typ Power	ical Factor	Model Number
Current Range	Range(1)	Current	Range(2)	Range	Power	(3)	120Vac	220Vac	(5)
70-1050mA	700-1050mA	700 mA	90~305 Vac/ 127~300 Vdc	95~286 Vdc	200 W	93.5%	0.99	0.96	EUM-200S105Lx
105-1500mA	1050-1500mA					93.5%	0.99	0.96	EUM-200S150Lx
180-2800mA	1800-2800mA		127~300 Vdc			93.0%	0.99	0.96	EUM-200S280Lx ⁽⁴⁾
350-5600mA	3500-5600mA	4200 mA	90~305 Vac/ 127~300 Vdc	18 ~ 57 Vdc	200 W	92.0%	0.99	0.96	EUM-200S560Lx ⁽⁴⁾

Notes: (1) Output current range with constant power at 200W

(2) Certified input voltage range: UL, FCC 100-277Vac; otherwise 100-240Vac.

(3) Measured at 100% load and 220Vac input (see below "General Specifications" for details).

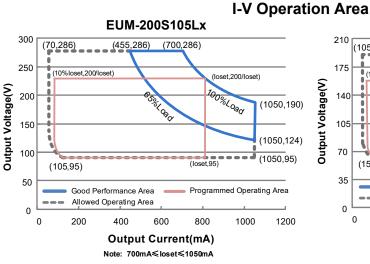
(4) SELV output.

(5) x = G are UL Recognized, ENEC and CCC, etc. models; x = T are UL Class P models; x = B are BIS models.

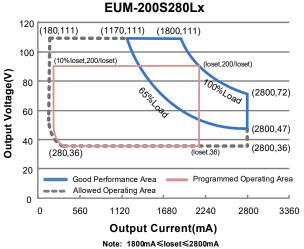
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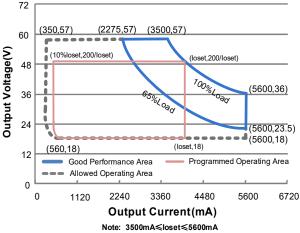
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200W NFC Driver with INV Digital Dimming



EUM-200S150Lx 210 (105,190) (683,190) (1050,190) 175 0%loset,200/lo set.200/loset) Output Voltage(V) 140 (1500.133)650 105 (1500,87) 70 (1500,67) (loset,67) (150,67) 35 Good Performance Area Programmed Operating Area Allowed Operating Area 0 0 300 600 900 1200 1500 1800 Output Current(mA) Note: 1050mA≤loset≤1500mA EUM-200S560Lx 72





Input Specifications

Parameter	Min.	Тур.	Max.	Notes
Input AC Voltage	90 Vac	-	305 Vac	
Input DC Voltage	127 Vdc	-	300 Vdc	
Input Frequency	47 Hz	-	63 Hz	
Laskaga Current	-	-	0.75 MIU	UL8750; 277Vac/ 60Hz
Leakage Current	-	-	0.70 mA	IEC60598-1; 240Vac/ 60Hz,
Input AC Current	-	-	2.07 A	Measured at 100% load and 120 Vac input.
Input AC Current	-	-	1.1 A	Measured at 100% load and 220 Vac input.
Inrush Current(I ² t)	-	-	4.61 A ² s	At 220Vac input, 25°C cold start, duration=776 μs, 10%lpk-10%lpk. See Inrush Current Waveform for the details.
PF	0.9	-	-	At 100-277Vac, 50-60Hz, 65%-100% load (130-200W)

EUM-200SxxxLx

Specifications are subject to changes without notice. www.inventronics-co.com Tel: 86-57 All specifications are typical at 25 °C unless otherwise stated. Fax: 86-571-86601139 sales@inventronics-co.com

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Input Specifications (Continued)

Parameter	Min.	Тур.	Max.	Notes
ТНО	-	-	20%	At 100-277Vac, 50-60Hz, 65%-100% load (130-200W)
THD	-	-	10%	At 220-240Vac, 50-60Hz, 75%-100% load (150-200W)

Output Specifications

Parameter	Min.	Тур.	Max.	Notes
Output Current Tolerance	-5%loset	-	5%loset	At 100% load condition
Output Current Setting(loset) Range				
EUM-200S105Lx EUM-200S150Lx	70 mA 105 mA	-	1050 mA 1500 mA	
EUM-2005150Lx EUM-2005280Lx	180 mA	-	2800 mA	
EUM-200S560Lx	350 mA	-	5600 mA	
Output Current Setting Range with Constant Power				
EUM-200S105Lx	700 mA	-	1050 mA	
EUM-200S150Lx EUM-200S280Lx	1050 mA 1800 mA	-	1500 mA 2800 mA	
EUM-2008560Lx	3500 mA	-	5600 mA	
Total Output Current Ripple (pk-pk)	-	5%lomax	10%Iomax	At 100% load condition. 20 MHz BW
Output Current Ripple at < 200 Hz (pk-pk)	-	2%lomax	-	At 100% load condition. Only this component of ripple is associated with visible flicker.
Startup Overshoot Current	-	-	10%lomax	At 100% load condition
No Load Output Voltage EUM-200S105Lx EUM-200S150Lx EUM-200S280Lx	- - -	- - -	360 V 240 V 120 V	
EUM-200S560Lx	-	-	75 V	
Line Regulation	-	-	±0.5%	Measured at 100% load
Load Regulation	-	-	±3.0%	
Turn-on Delay Time	-	-	0.5 s	Measured at 120-277Vac input, 65%-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	
12V Auxiliary Output Source Current	0 mA	-	250 mA	Return terminal is "Dim–"
12V Auxiliary Output Transient Peak Current@ 6W	-	-	500 mA	500mA peak for a maximum duration of 2.2ms 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 1.3ms in a 5.2ms period during which time the average should not exceed 250mA.

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General Specifications

Parame	eter	Min.	Тур.	Max.	Notes
Efficiency at 120 V	/ac input:				
EUM-200S105Lx	·				
	lo= 700 mA	88.5%	90.5%	-	
	lo=1050 mA	89.0%	91.0%	-	
EUM-200S150Lx					Measured at 100% load and steady-state
	lo=1050 mA	88.5%	90.5%	-	temperature in 25°C ambient;
	lo=1500 mA	88.5%	90.5%	-	(Efficiency will be about 2.0% lower if
EUM-200S280Lx					measured immediately after startup.)
	lo=1800 mA	88.0%	90.0%	-	measured immediately after startup.)
	lo=2800 mA	88.0%	90.0%	-	
EUM-200S560Lx		07.00/	00.00/		
	lo=3500 mA	87.0%	89.0%	-	
	lo=5600 mA	87.0%	89.0%	-	
Efficiency at 220 V	ac input:				
EUM-200S105Lx	la _ 700 m A	04 50/	02 50/		
	lo= 700 mA	91.5%	93.5%	-	
	lo=1050 mA	91.5%	93.5%	-	
EUM-200S150Lx	la-1050 mA	01 50/	02 50/		Measured at 100% load and steady-state
	lo=1050 mA lo=1500 mA	91.5% 91.5%	93.5% 93.5%	-	temperature in 25°C ambient;
EUM-200S280Lx	10-1500 MA	91.570	93.570	-	(Efficiency will be about 2.0% lower if
E0101-2003200LX	lo=1800 mA	91.0%	93.0%	_	measured immediately after startup.)
	lo=2800 mA	91.0%	93.0%		
EUM-200S560Lx	10-2000 mA	31.070	33.070	-	
LUM-2003JOULX	lo=3500 mA	90.0%	92.0%	_	
	lo=5600 mA	89.5%	91.5%		
Efficiency at 277 V		00.070	01.070		
EUM-200S105Lx	do input.				
	lo= 700 mA	92.0%	94.0%	-	
	lo=1050 mA	92.0%	94.0%	-	
EUM-200S150Lx					Management at 100% land and standy state
	lo=1050 mA	92.0%	94.0%	-	Measured at 100% load and steady-state
	lo=1500 mA	92.0%	94.0%	-	temperature in 25°C ambient;
EUM-200S280Lx					(Efficiency will be about 2.0% lower if
	lo=1800 mA	91.5%	93.5%	-	measured immediately after startup.)
	lo=2800 mA	91.5%	93.5%	-	
EUM-200S560Lx					
	lo=3500 mA	90.5%	92.5%	-	
	lo=5600 mA	90.0%	92.0%	-	
Power Monitoring	Accuracy	-1%		+1%	Measured at 220Vac input and 100%load
	Accuracy	-170	-	170	
Standby Power			_	0.5 W	Measured at 230Vac/50Hz; Dimming off
Standby FOWER		-	-	0.5 W	
			205,000		Measured at 220Vac input, 80%load and
MTBF		-	Hours	-	25°C ambient temperature (MIL-HDBK-
			riours		217F)
			102,000		Measured at 220Vac input, 80%load and
Lifetime		-	Hours	-	70°C case temperature; See lifetime vs.
			riours		Tc curve for the details
Operating Case Te	emperature	-40°C		+90°C	
for Safety Tc_s		-40 C	-	+90 C	
Operating Case Te	emperature	4622		. 7500	Case temperature for 7 years warranty
for Warranty Tc w		-40°C	-	+75°C	Humidity: 10% RH to 95% RH;
		40.20			
Storage Temperate	ure	-40°C	-	+85°C	Humidity: 5%RH to 95%RH

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General Specifications (Continued)

Parameter	Min.	in. Typ. Max.		Notes	
Dimensions				With mounting ear	
Inches (L × W × H)	6	.73 × 2.66 × 1.4	14	7.40 × 2.66 × 1.44	
Millimeters (L × W × H)	1	71 × 67.5 × 36.	.5	188 × 67.5 × 36.5	
Net Weight	-	1000 g	-		

Dimming Specifications

Parameter		Min.	Тур.	Max.	Notes
Absolute Maximum Voltage on the Vdim (+) Pin		-20 V	-	20 V	
Source Curr	ent on Vdim (+)Pin	200 µA	300 µA	450 µA	Vdim(+) = 0 V
Dimming Output			-	loset	700 mA ≤ loset ≤ 1050 mA 1050 mA ≤ loset ≤ 1500 mA 1800 mA ≤ loset ≤ 2800 mA 3500 mA ≤ loset ≤ 5600 mA
Range	EUM-200S105Lx EUM-200S150Lx EUM-200S280Lx EUM-200S560Lx	70 mA 105 mA 180 mA 350 mA	-	loset	$\begin{array}{l} \text{70 mA} \leqslant \text{loset} < \text{700 mA} \\ \text{105 mA} \leqslant \text{loset} < \text{1050 mA} \\ \text{180 mA} \leqslant \text{loset} < \text{1800 mA} \\ \text{350 mA} \leqslant \text{loset} < \text{3500 mA} \end{array}$
Recommend Range	ded Dimming Input	0 V	-	10 V	
Dim off Volta	age	0.35 V	0.5 V	0.65 V	Default 0-10V dimming mode.
Dim on Volta	Dim on Voltage		0.7 V	0.85 V	
Hysteresis		-	0.2 V	-	
PWM_in Hig	gh Level	3 V	-	10 V	
PWM_in Lov	w Level	-0.3 V	-	0.6 V	
PWM_in Fre	equency Range	200 Hz	-	3 KHz	
PWM_in Du	ty Cycle	1%	-	99%	
PWM Dimm Logic)	ing off (Positive	3%	5%	8%	Dimming mode set to PWM in PC interface.
	PWM Dimming on (Positive		7%	10%	
PWM Dimming off (Negative Logic)		92%	95%	97%	
	ing on (Negative	90%	93%	95%	
Hysteresis		-	2%	-	

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Safety & EMC Compliance

Safety Category	Standard
UL/CUL	UL8750,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 V2.2.3 EN 301 489-3 V2.1.1 EN 300 330 V2.1.1 EN 62479/EN 50663/EN 50665/EN 50364
UKCA	BS EN 61347-1, BS EN 61347-2-13 BS EN 301 489-1 BS EN 301 489-3 BS EN 300 330 BS EN 62479/BS EN 50663/BS EN 50665/BS EN 50364
СВ	IEC 61347-1, IEC 61347-2-13
CCC	GB 19510.1, GB 19510.14
PSE	J 61347-1, J 61347-2-13
BIS	IS 15885(Part2/Sec13)
SAA	AS/NZS 61347.1, AS/NZS 61347.2.13
KS	KS C 7655
EAC	ГОСТ Р МЭК 61347-1, ГОСТ ІЕС 61347-2-13
NOM	NOM-058-SCFI
EMI Standards	Notes
EN 55015/GB 17743/KN 15 ⁽¹⁾	Conducted emission Test &Radiated emission Test
EN 55015/GB 17743/KN 15 ⁽¹⁾ EN 61000-3-2/GB 17625.1	Conducted emission Test &Radiated emission Test Harmonic current emissions
EN 61000-3-2/GB 17625.1	Harmonic current emissions
EN 61000-3-2/GB 17625.1	Harmonic current emissions Voltage fluctuations & flicker
EN 61000-3-2/GB 17625.1 EN 61000-3-3	Harmonic current emissions Voltage fluctuations & flicker 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
EN 61000-3-2/GB 17625.1 EN 61000-3-3 FCC Part 15 ⁽¹⁾	Harmonic current emissions Voltage fluctuations & flicker 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.
EN 61000-3-2/GB 17625.1 EN 61000-3-3 FCC Part 15 ⁽¹⁾ EMS Standards	Harmonic current emissions Voltage fluctuations & flicker 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. Notes
EN 61000-3-2/GB 17625.1 EN 61000-3-3 FCC Part 15 ⁽¹⁾ EMS Standards EN 61000-4-2	Harmonic current emissions Voltage fluctuations & flicker 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. Notes Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge
EN 61000-3-2/GB 17625.1 EN 61000-3-3 FCC Part 15 ⁽¹⁾ EMS Standards EN 61000-4-2 EN 61000-4-3	Harmonic current emissions Voltage fluctuations & flicker 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. Notes Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge Radio-Frequency Electromagnetic Field Susceptibility Test-RS
EN 61000-3-2/GB 17625.1 EN 61000-3-3 FCC Part 15 ⁽¹⁾ EMS Standards EN 61000-4-2 EN 61000-4-3 EN 61000-4-4	Harmonic current emissions Voltage fluctuations & flicker 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. Notes Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge Radio-Frequency Electromagnetic Field Susceptibility Test-RS Electrical Fast Transient / Burst-EFT
EN 61000-3-2/GB 17625.1 EN 61000-3-3 FCC Part 15 ⁽¹⁾ EMS Standards EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5	Harmonic current emissions Voltage fluctuations & flicker 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. Notes Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge Radio-Frequency Electromagnetic Field Susceptibility Test-RS Electrical Fast Transient / Burst-EFT Surge Immunity Test: AC Power Line: Differential Mode 6 kV, Common Mode 10 kV
EN 61000-3-2/GB 17625.1 EN 61000-3-3 FCC Part 15 ⁽¹⁾ EMS Standards EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6	Harmonic current emissions Voltage fluctuations & flicker 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. Notes Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge Radio-Frequency Electromagnetic Field Susceptibility Test-RS Electrical Fast Transient / Burst-EFT Surge Immunity Test: AC Power Line: Differential Mode 6 kV, Common Mode 10 kV Conducted Radio Frequency Disturbances Test-CS

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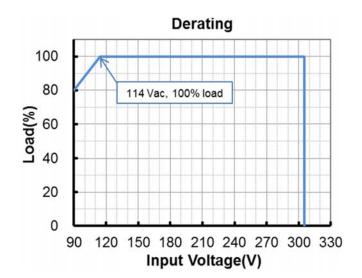
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Safety & EMC Compliance (Continued)

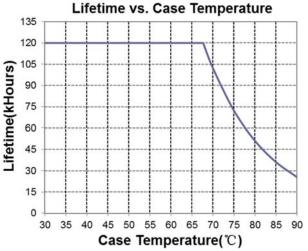
EMS Standards	Notes
EN 61547	Electromagnetic Immunity Requirements Applies To Lighting Equipment

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.

Derating



Lifetime vs. Case Temperature

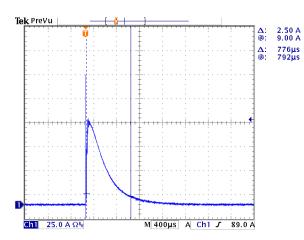


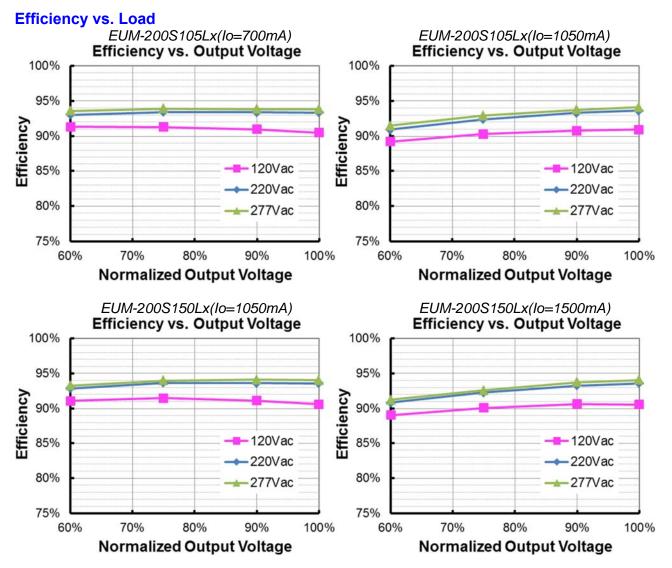
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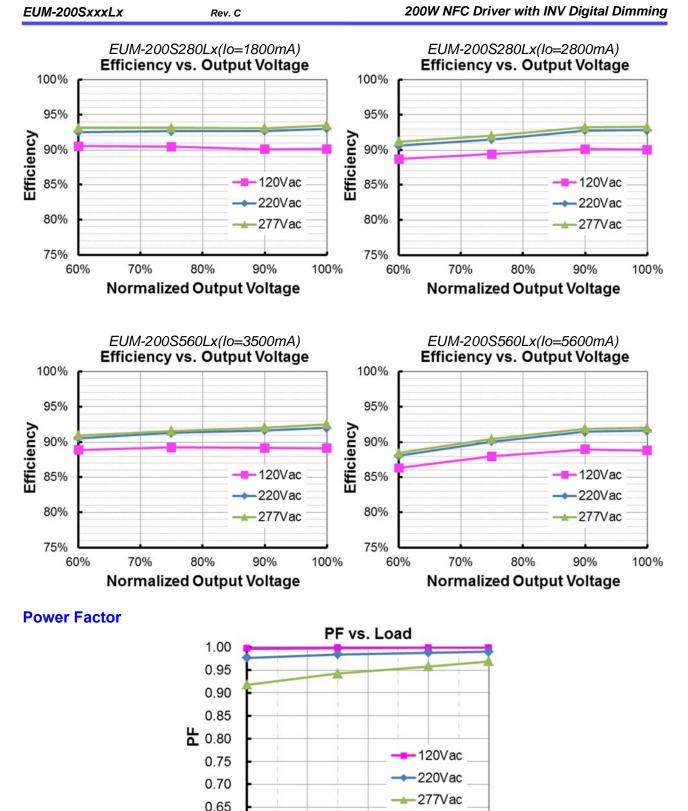
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Inrush Current Waveform





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0.60

60%

80%

Load

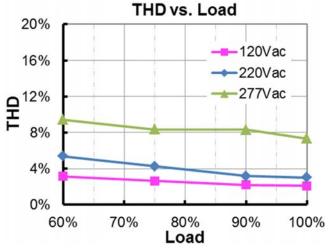
90%

70%

100%

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Total Harmonic Distortion



Protection Functions

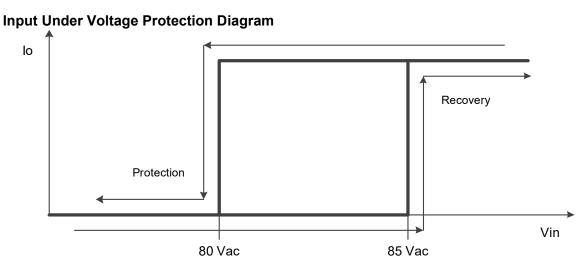
Pai	rameter	Min.	Тур.	Max.	Notes			
	R1 (Start derating)	-	1.67 kΩ	-	The output current starts to decrease linearly when the actual NTC resistance value is lower than R1, until R2 is reached.			
External Thermal Protection	R2 (Stop derating)	-	1.27 kΩ	-	When the actual NTC resistance value is lower than R2, the output current will stay at the programmed Protection Current Floor.			
	Protection	10%loset	20%loset	100%loset	10%loset > lomin (default setting is 20%)			
	Current Floor	Iomin	20%loset	100%loset	10%loset ≤ lomin (default setting is 20%)			
Over Voltage F	Protection	Limits output voltage at no load and in case the normal voltage limit fails.						
Short Circuit P	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 Tempera	ture Protection	Decreases output current, returning to normal after over temperature is removed.						
Input Under Voltage	Input Under Voltage Protection	70 Vac	80 Vac	90 Vac	Turn off the output when the input voltage falls below protection voltage.			
Protection (IUVP)	Input Under Voltage Recovery	75 Vac	85 Vac	95 Vac	Auto Recovery. The driver will restart when the input voltage exceeds recovery voltage.			
Input Over Voltage Protection		310 Vac	320 Vac	330 Vac	Turn off the output when the input voltage exceeds protection voltage.			
Input Over Voltage Protection	Input Over Voltage Recovery	300 Vac	310 Vac	320 Vac	Auto Recovery. The driver will restart when the input voltage falls below recovery voltage.			
(IOVP)	Max. of Input Over Voltage	-	-	350 Vac	The driver can survive stabilized input over voltage conditions up to 350Vac for a total of 8 hours.			

Note: (1) The recommended NTC type is $10k\Omega$ NTC, Murata NCP18XH103J03RB.

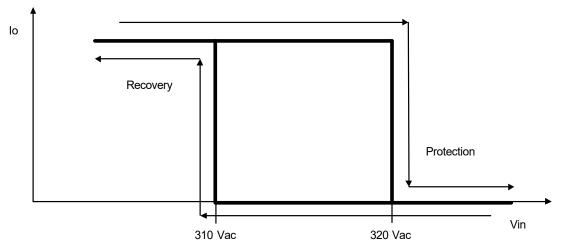
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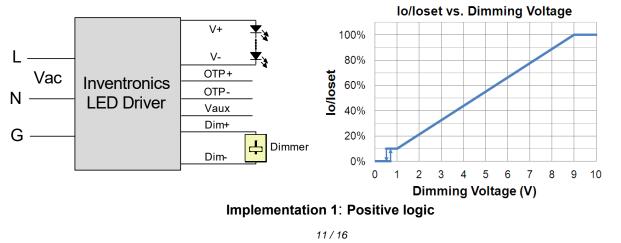
Input Over Voltage Protection Diagram



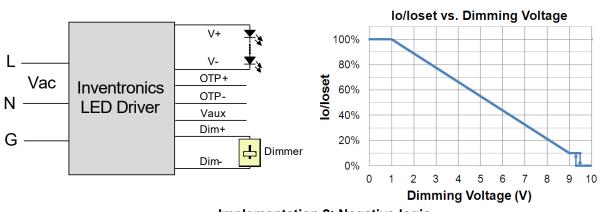
Dimming

• 0-10V Dimming

The recommended implementation of the dimming control is provided below.



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Implementation 2: Negative logic

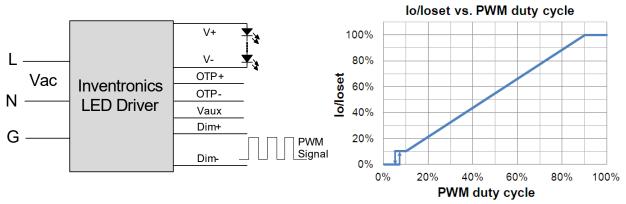
Notes:

EUM-200SxxxLx

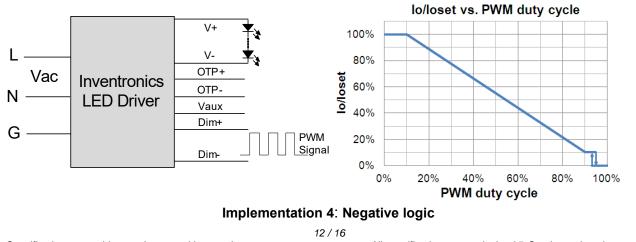
- 1. Do NOT connect Dim- to the output V- or V+, otherwise the driver will not work properly.
- 2. The dimmer can also be replaced by an active 0-10V voltage source signal or passive components like zener.
- 3. When 0-10V negative logic dimming mode and Dim+ is open, the driver will dim to off and be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

PWM Dimming

The recommended implementation of the dimming control is provided below.



Implementation 3: Positive logic



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Note:

- 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.

• 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.

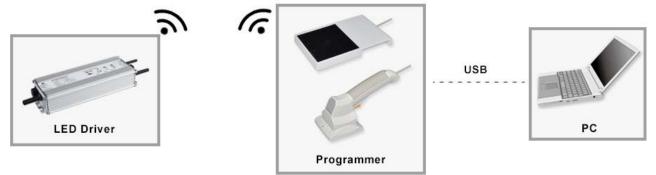
End Of Life

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.

• Digital Dimming

Inventronics Digital Dimming is a UART (Universal Asynchronous Receive Transmitter) based communication protocol and is compliant with T/CSA-051 standard. Please refer to <u>Inventronics Digital</u> <u>Dimming</u> file for details.

Programming Connection Diagram



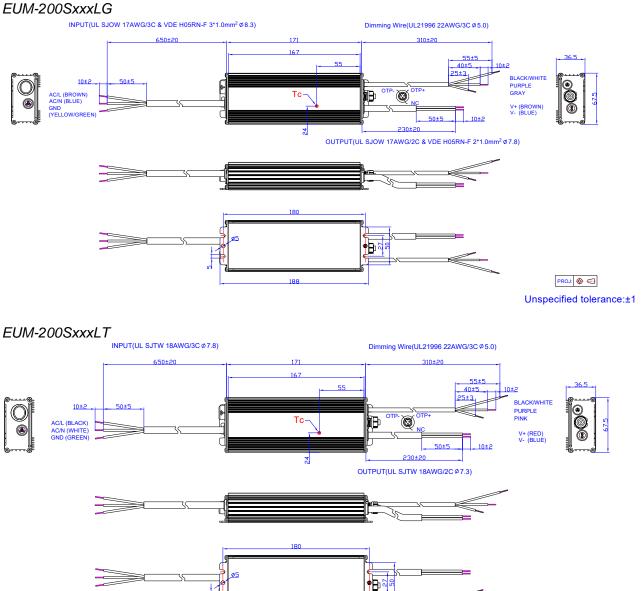
Note: The driver does not need to be powered on during the programming process.

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

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Mechanical Outline



Specifications are subject to changes without notice.

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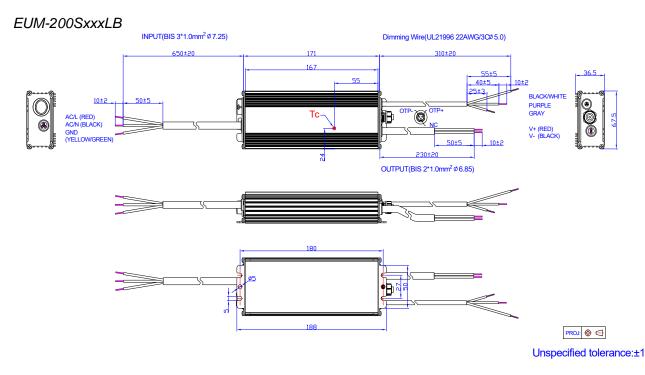
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PROJ: 🔶 🚭

Unspecified tolerance:±1

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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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Revision History

Change Date Rev.		Description of Change						
		Item	From	То				
2020-06-29	А	Datasheet Release	1	/				
		Product Photograph	/	Updated				
	2021-06-02 B					EAC logo	/	Added
2021-06-02		NOM logo	/	Added				
				Safety &EMC Compliance	/	Updated		
		Mechanical Outline	/	Updated				
		UKCA/SAA logo	/	Added				
2022-01-08	С	Safety &EMC Compliance	UKCA/SAA	Added				
		Mechanical Outline	EUM-200SxxxLT	Updated				

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