

Rev.D

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-240SxxxLx* series is a 240W, 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	Dower	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	115~3/13 1/00	240 W	94.0%	0.99	0.96	EUM-240S105Lx
105-1500mA	1050-1500mA	1050 mA	90~305 Vac/ 127~300 Vdc	80~229 Vdc	240 W	93.5%	0.99	0.96	EUM-240S150Lx
215-3500mA	2150-3500mA	2150 mA	90~305 Vac/ 127~300 Vdc	35~111 Vdc	240 W	93.0%	0.99	0.96	EUM-240S350Lx ⁽⁴⁾
420-6700mA	4200-6700mA	4900 mA	90~305 Vac/ 127~300 Vdc	18 ~ 57 Vdc	240 W	92.5%	0.99	0.96	EUM-240S670Lx ⁽⁴⁾

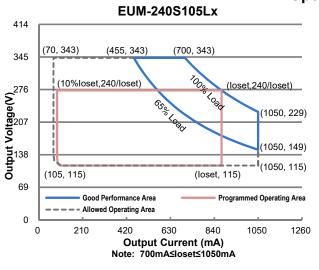
Notes: (1) Output current range with constant power at 240W.

- (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.

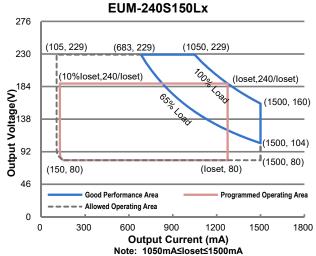
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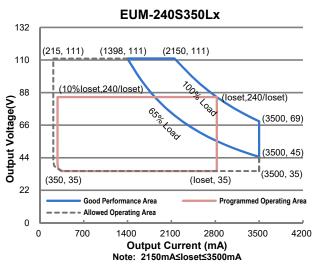
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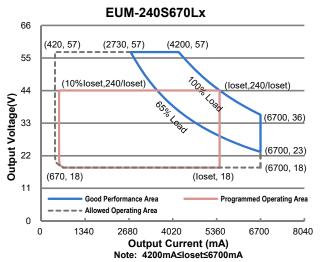
I-V Operation Area



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Input Specifications

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				
Lookaga Current	-	-	0.75 MIU	UL 8750; 277Vac/60Hz			
Leakage Current	-	-	0.70 mA	IEC 60598-1; 240Vac/60Hz			
In must A.C. Cummant	-	-	2.54 A	Measured at 100% load and 120 Vac input.			
Input AC Current	-	-	1.34 A	Measured at 100% load and 220 Vac input.			
Inrush Current(I ² t)	-	-	4.39 A ² s	At 220Vac input, 25°C cold start, duration=1.74 ms, 10%lpk-10%lpk. See Inrush Current Waveform for the details.			

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Input Specifications (Continued)

	Parameter	Min.	Тур.	Max.	Notes
PF		0.9	-	-	At 100-277Vac, 50-60Hz, 65%-100%load
THD		-	-	20%	(156-240W)
THD		-	-	10%	At 220-240Vac, 50-60Hz, 75%-100%load (180-240W)

Output Specifications

Parameter	Min.	Тур.	Max.	Notes
Output Current Tolerance	-5%loset	-	5%loset	At 100% load condition
Output Current Setting(loset) Range				
EUM-240S105Lx	70 mA	_	1050 mA	
EUM-240S150Lx	105 mA	_	1500 mA	
EUM-240S350Lx	215 mA	-	3500 mA	
EUM-240S670Lx	420 mA	-	6700 mA	
Output Current Setting Range with Constant Power				
EUM-240S105Lx	700 mA	-	1050 mA	
EUM-240S150Lx	1050 mA	-	1500 mA	
EUM-240S350Lx	2150 mA	-	3500 mA	
EUM-240S670Lx	4200 mA	-	6700 mA	
Total Output Current Ripple (pk-pk)	-	5%lomax	10%lomax	At 100% load condition. 20 MHz BW
Output Current Ripple at				At 100% load condition. Only this
< 200 Hz (pk-pk)	-	2%lomax	-	component of ripple is associated with visible flicker.
Startup Overshoot Current	-	-	10%lomax	At 100% load condition
No Load Output Voltage				
EUM-240S105Lx	-	-	400 V	
EUM-240S150Lx	-	-	290 V	
EUM-240S350Lx	-	-	120 V	
EUM-240S670Lx	-	-	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 2.2 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.

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General Specifications

Parame	ter	Min.	Тур.	Max.	Notes
Efficiency at 120 V	ac input:				
EUM-240S105Lx					
	Io= 700 mA	89.0%	91.0%	-	
	lo=1050 mA	89.0%	91.0%	-	
EUM-240S150Lx					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%	-	
EUM-240S350Lx					(Efficiency will be about 2.0% lower if
	lo=2150 mA	88.0%	90.0%	-	measured immediately after startup.)
	lo=3500 mA	87.5%	89.5%	-	
EUM-240S670Lx					
	lo=4200 mA	87.5%	89.5%	-	
	lo=6700 mA	86.5%	88.5%	-	
Efficiency at 220 V					
EUM-240S105Lx					
	Io= 700 mA	92.0%	94.0%	_	
	lo=1050 mA	92.0%	94.0%	_	
EUM-240S150Lx	.5 1000 111/4	02.070	01.070		
LOW-2400 130LX	lo=1050 mA	91.5%	93.5%	_	Measured at 100% load and steady-state
	lo=1500 mA	91.0%	93.0%	_	temperature in 25°C ambient;
EUM-240S350Lx	10-1300 IIIA	91.070	93.070	-	(Efficiency will be about 2.0% lower if
EUW-2403330LX	lo=2150 mA	91.0%	93.0%		measured immediately after startup.)
	lo=3500 mA	90.5%	93.0%	-	, , , , ,
FUM 0400670Ly	10-3300 IIIA	90.5%	92.5%	-	
EUM-240S670Lx	I = - 4000 ··· A	00.50/	00.50/		
	lo=4200 mA	90.5%	92.5%	-	
	lo=6700 mA	90.0%	92.0%	-	
Efficiency at 277 V	ac input:				
EUM-240S105Lx					
	lo= 700 mA	92.5%	94.5%	-	
	Io=1050 mA	92.5%	94.5%	-	
EUM-240S150Lx					Measured at 100% load and steady-state
	Io=1050 mA	92.0%	94.0%	-	temperature in 25°C ambient;
	Io=1500 mA	91.5%	93.5%	-	(Efficiency will be about 2.0% lower if
EUM-240S350Lx					measured immediately after startup.)
	lo=2150 mA	91.5%	93.5%	-	measured inimediately after startup.)
	lo=3500 mA	90.5%	92.5%	-	
EUM-240S670Lx					
	lo=4200 mA	91.0%	93.0%	-	
	lo=6700 mA	90.0%	92.0%	-	
5 14 1/1		10/		40/	
Power Monitoring A	Accuracy	-1%	-	1%	Measured at 220Vac input and 100%Load
Standby Power		-	-	0.5 W	Measured at 230Vac/50Hz; Dimming off
					Measured at 220Vac input, 80%Load and
MTBF		_	201,000	_	25°C ambient temperature (MIL-HDBK-
וטו ועו		_	Hours	_	217F)
l :6-4:			101,000		Measured at 220Vac input, 80%Load and
Lifetime		-	Hours	-	70°C case temperature; See lifetime vs.
					Tc curve for the details
Operating Case Te	emperature	-40°C	_	+90°C	
for Safety Tc_s		.5 0		- 50 0	
Operating Case Te	mperature	40°C		+7E°C	Case temperature for 7 years warranty
for Warranty Tc_w		-40°C	-	+75°C	Humidity: 10% RH to 95% RH
· · · · · · · · · · · · · · · · · · ·		-40°C		+85°C	Humidity: 5%RH to 95%RH
Storage Temperati					



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General Specifications (Continued)

Parameter	Min.	Тур.	Max.	Notes	
Dimensions Inches (L × W × H) Millimeters (L × W × H)	7.91 × 2.66 × 1.52 201 × 67.5 × 38.5			With mounting ear 8.58 × 2.66 × 1.52 218 × 67.5 × 38.5	
Net Weight	-	1050 g	-		

Dimming Specifications

P	Parameter		Тур.	Max.	Notes	
	Absolute Maximum Voltage on the Vdim (+) Pin		-	20 V		
Source Curre	ent on Vdim (+)Pin	200 μΑ	300 µA	450 µA	Vdim(+) = 0 V	
Dimming Output			-	loset	700 mA ≤ loset ≤ 1050 mA 1050 mA ≤ loset ≤ 1500 mA 2150 mA ≤ loset ≤ 3500 mA 4200 mA ≤ loset ≤ 6700 mA	
Range	EUM-240S105Lx EUM-240S150Lx EUM-240S350Lx EUM-240S670Lx	70 mA 105 mA 215 mA 420 mA	1	loset	70 mA ≤ loset < 700 mA 105 mA ≤ loset < 1050 mA 215 mA ≤ loset < 2150 mA 420 mA ≤ loset < 4200 mA	
Recommend Range	led Dimming Input	0 V	ı	10 V		
Dim off Volta	ige	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	Delault 0-10V ullrillillig filode.	
Hysteresis		-	0.2 V	-		
PWM_in Hig	h Level	3 V	-	10 V		
PWM_in Low	v Level	-0.3 V	ı	0.6 V		
PWM_in Fre	quency Range	200 Hz	-	3 KHz		
PWM_in Dut	y Cycle	1%	-	99%		
PWM Dimmi Logic)	ng off (Positive	3%	5%	8%	Dimming mode set to PWM in Inventronics Programing software.	
PWM Dimming on (Positive Logic)		5%	7%	10%	internation regrammy contract.	
PWM Dimmi Logic)	PWM Dimming off (Negative		95%	97%		
PWM Dimmi Logic)	ng on (Negative	90%	93%	95%		
Hysteresis		-	2%	-		

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Safety &EMC Compliance

Safety &EMC Complianc	
Safety Category	Standard
UL/CUL	UL 8750,CAN/CSA-C22.2 No. 250.13
ENEC	EN 61347-1, EN 61347-2-13
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
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
PSE	J 61347-1, J 61347-2-13
KS	KS C 7655
BIS	IS 15885(Part2/Sec13)
NOM	NOM-058-SCFI
EAC	TP TC 004, TP TC 020
SAA	AS/NZS 61347.1, AS/NZS 61347.2.13
Performance	Standard
	0.00.00
ENEC	EN 62384
ENEC	EN 62384
ENEC EMI Standards BS EN/EN IEC 55015/GB/T 17743/KN 15 ⁽¹⁾ BS EN/EN IEC 61000-3-2/GB	EN 62384 Notes
ENEC EMI Standards BS EN/EN IEC 55015/GB/T 17743/KN 15 ⁽¹⁾	EN 62384 Notes Conducted emission Test &Radiated emission Test
ENEC EMI Standards BS EN/EN IEC 55015/GB/T 17743/KN 15 ⁽¹⁾ BS EN/EN IEC 61000-3-2/GB 17625.1	Notes Conducted emission Test &Radiated emission Test Harmonic current emissions
ENEC EMI Standards BS EN/EN IEC 55015/GB/T 17743/KN 15 ⁽¹⁾ BS EN/EN IEC 61000-3-2/GB 17625.1	Notes Conducted emission Test &Radiated emission Test Harmonic current emissions Voltage fluctuations & flicker
ENEC EMI Standards BS EN/EN IEC 55015/GB/T 17743/KN 15 ⁽¹⁾ BS EN/EN IEC 61000-3-2/GB 17625.1 BS EN/EN 61000-3-3	Notes Conducted emission Test &Radiated emission Test 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
ENEC EMI Standards BS EN/EN IEC 55015/GB/T 17743/KN 15 ⁽¹⁾ BS EN/EN IEC 61000-3-2/GB 17625.1 BS EN/EN 61000-3-3	Notes Conducted emission Test &Radiated emission Test 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.
EMI Standards BS EN/EN IEC 55015/GB/T 17743/KN 15 ⁽¹⁾ BS EN/EN IEC 61000-3-2/GB 17625.1 BS EN/EN 61000-3-3 FCC Part 15 ⁽¹⁾	Notes Conducted emission Test &Radiated emission Test 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
EMI Standards BS EN/EN IEC 55015/GB/T 17743/KN 15 ⁽¹⁾ BS EN/EN IEC 61000-3-2/GB 17625.1 BS EN/EN 61000-3-3 FCC Part 15 ⁽¹⁾ EMS Standards BS EN/EN 61000-4-2	Notes Conducted emission Test &Radiated emission Test 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
EMI Standards BS EN/EN IEC 55015/GB/T 17743/KN 15 ⁽¹⁾ BS EN/EN IEC 61000-3-2/GB 17625.1 BS EN/EN 61000-3-3 FCC Part 15 ⁽¹⁾ EMS Standards BS EN/EN 61000-4-2 BS EN/EN 61000-4-3	Notes Conducted emission Test &Radiated emission Test 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
ENEC EMI Standards BS EN/EN IEC 55015/GB/T 17743/KN 15 ⁽¹⁾ BS EN/EN IEC 61000-3-2/GB 17625.1 BS EN/EN 61000-3-3 FCC Part 15 ⁽¹⁾ EMS Standards BS EN/EN 61000-4-2 BS EN/EN 61000-4-3 BS EN/EN 61000-4-4	Notes Conducted emission Test &Radiated emission Test 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

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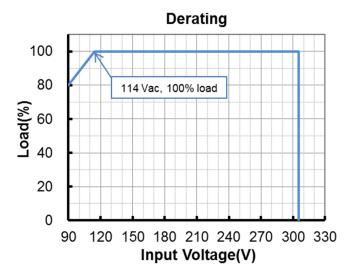
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Safety &EMC Compliance (Continued)

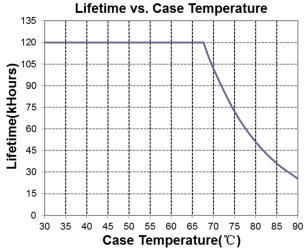
EMS Standards	Notes
BS EN/EN 61000-4-8	Power Frequency Magnetic Field Test
BS EN/EN 61000-4-11	Voltage Dips
BS EN/EN 61547	Electromagnetic Immunity Requirements Applies To Lighting Equipment

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

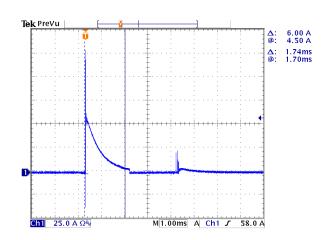


Lifetime vs. Case Temperature

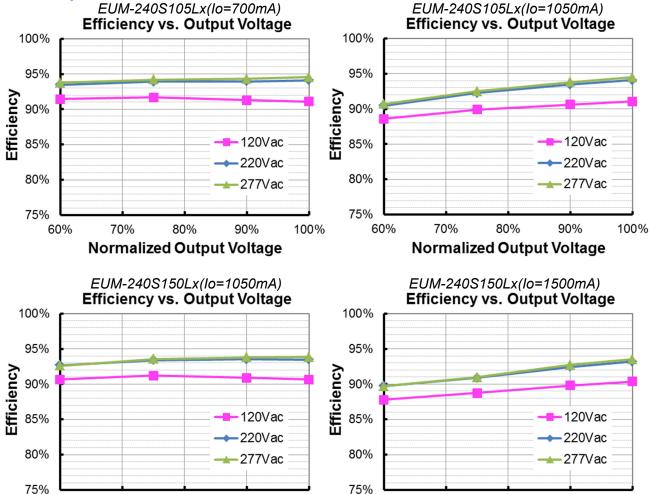


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Inrush Current Waveform



Efficiency vs. Load



100%

60%

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70%

70%

80%

Normalized Output Voltage

80%

Normalized Output Voltage

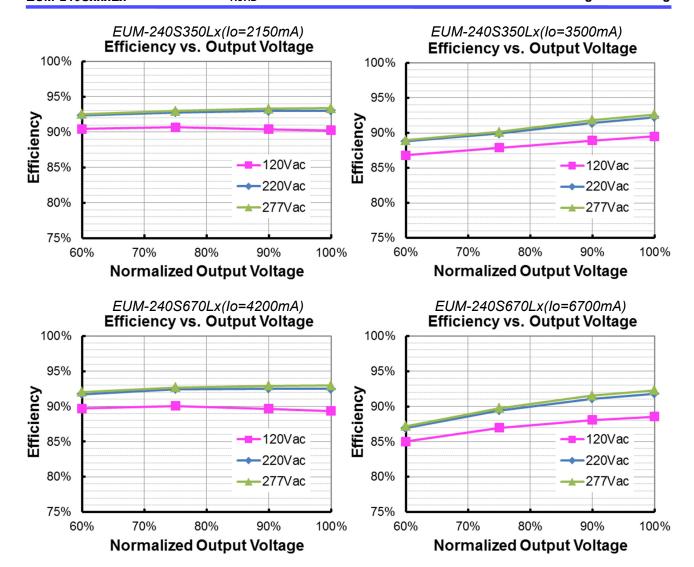
60%

90%

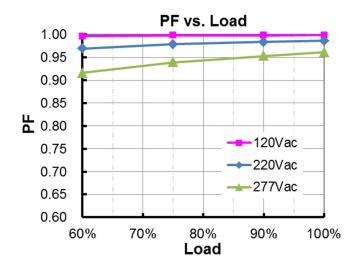
90%

100%

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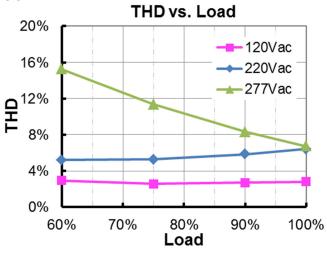
Power Factor



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Total Harmonic Distortion



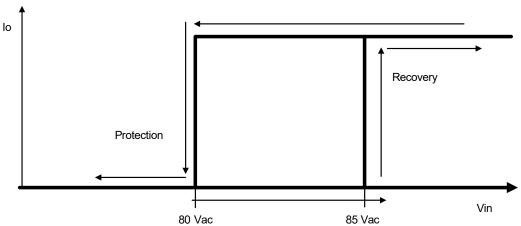
Protection Functions

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 > Iomin (default setting is 20%)			
	Current Setting Range	Iomin	20%loset	100%loset	10%loset ≤ lomin (default setting is 20%)			
Over Voltage F	Over Voltage 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		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.			

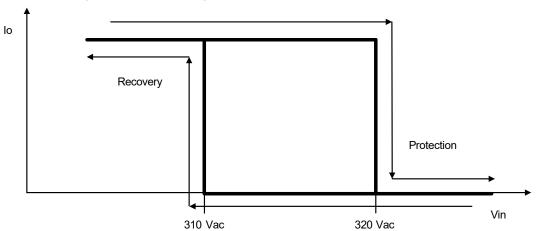
Note: (1) The recommended NTC type is $10k\Omega$ NTC, Murata NCP18XH103J03RB.



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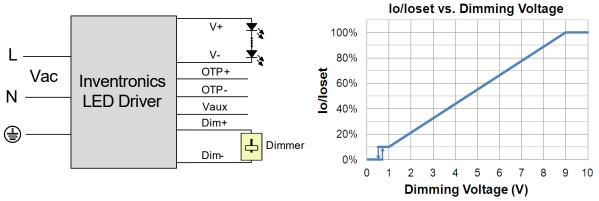
Input Over Voltage Protection Diagram



Dimming

0-10V Dimming

The recommended implementation of the dimming control is provided below.

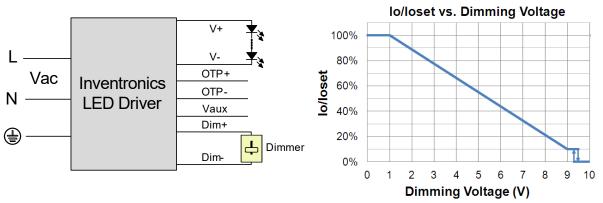


Implementation 1: Positive logic

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

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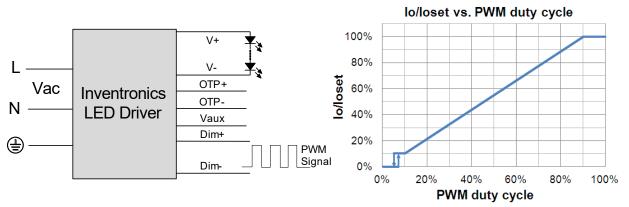
Implementation 2: Negative logic

Notes:

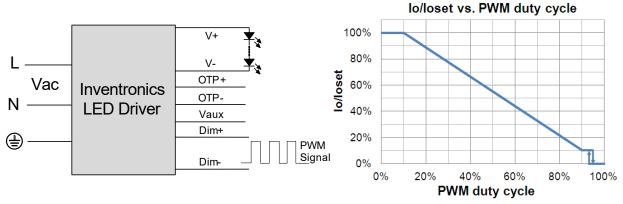
- 1. Do NOT connect Dim- to the output V- or V+, otherwise the driver will not work properly.
- 2. The dimmer can also be replaced by an active 0-10V voltage source signal or passive components like zener.
- 3. When 0-10V negative logic dimming mode and Dim+ is open, the driver will dim to off and be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

PWM Dimming

The recommended implementation of the dimming control is provided below.



Implementation 3: Positive logic



Implementation 4: Negative logic

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Notes:

- 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 Inventronics Digital Dimming file for details.

Programming Connection Diagram



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

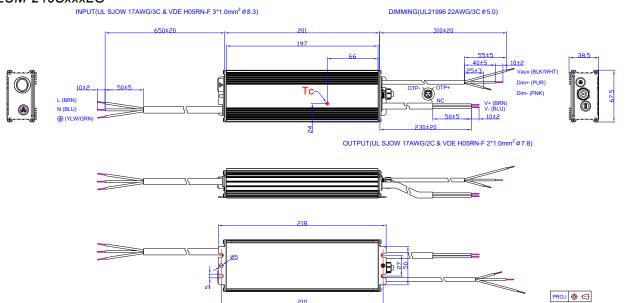
Please refer to <u>PRG-NFC-H</u> or <u>PRG-NFC-D2</u> (Programmer) datasheet for details.

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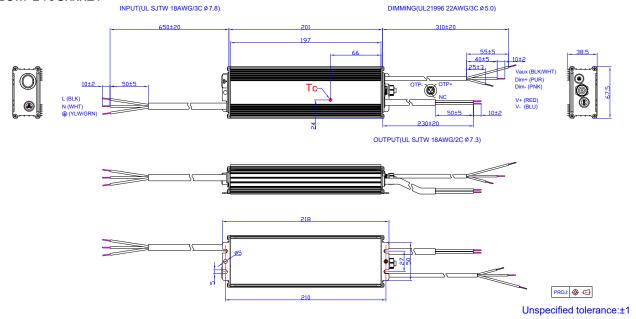
Rev.D

Mechanical Outline

EUM-240SxxxLG



EUM-240SxxxLT

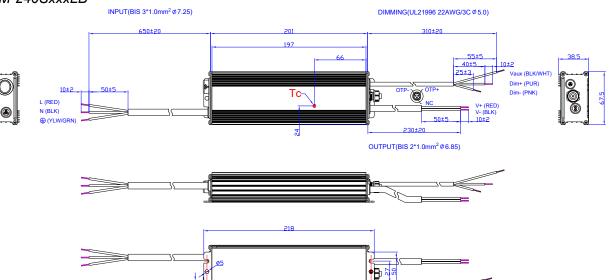


Fax: 86-571-86601139

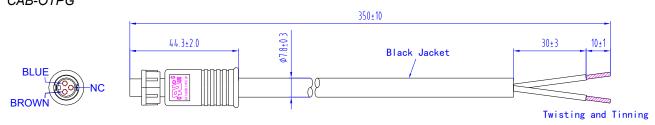
Unspecified tolerance:±1



Rev.D



Optional Cable Parts CAB-OTPG



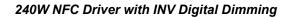
The external thermal protection cable used for the EUM series drivers can be supplied by Inventronics, please contact the sales for ordering if necessary. For the details of cable, please refer to CAB-OTPG (Cable) datasheet.

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.

Fax: 86-571-86601139

PROJ: 🔷 🚭 Unspecified tolerance:±1





Rev.D

Revision History

Change Rev.		[
Date	Rev.	Item	From	То
2020-07-28	Α	Datasheet Release	/	/
		Product Photograph	/	Updated
		EAC logo	/	Added
2021-06-02	2021-06-02 B	NOM logo	/	Added
		Safety &EMC Compliance	/	Updated
		Mechanical Outline	/	Updated
		UKCA/SAA logo	/	Added
2022-01-22	С	Safety &EMC Compliance	UKCA/SAA	Added
		Mechanical Outline	/	Updated
		Product Photograph	/	Updated
		Safety &EMC Compliance	/	Updated
2023-07-17	D	Dimming	/	Updated
		Programming Connection Diagram	/	Updated
		Mechanical Outline	/	Updated