Features

- Hot-plugging Protection
- Parallel LED Protection
- Adjustable Output Current (AOC) with Programmability
- Isolated 0-10V/PWM/Resistor Dimmable/3-Timer-Modes Dimmable
- Adjustable Dimming Curve
- INV Digital Dimming, UART Based Communication Protocol
- Dim-to-Off with Standby Power ≤ 0.5W
- Minimum Dimming Level with 5% or 10% Selectable
- Hold Time Adjustable
- Fade Time Adjustable
- Always-on Auxiliary Power: 12Vdc, 250mA
- Low Inrush Current
- Output Lumen Compensation
- End-of-Life Indicator
- Input Surge Protection: DM 6kV, CM 10kV
- All-Around Protection: IOVP, IUVP, OVP, SCP, OTP
- IP66/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 *EUM-480SxxxMx* series is a 480W, constant-current, programmable and IP66/IP67 rated LED driver that operates from 90-305Vac input with excellent power factor. Created for many lighting applications including high mast, sports, UV-LED, aquaculture and horticulture, etc. It provides 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. 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		Max.	Output Typical		ical Factor	Model Number ⁽³⁾⁽⁴⁾		
Current Range(A)	Range(A) ⁽¹⁾	Current(A)	Range(Vdc)	Power(W)	• Efficioncy(4)		HTTICIONCV(4)		220Vac	
0.105-1.4	1.05-1.4	1.4	171-457	480	94.5%	0.99	0.96	EUM-480S140Mx		
0.21-2.8	2.1-2.8	2.8	86-228	480	94.0%	0.99	0.96	EUM-480S280Mx		
0.315-4.2	3.15-4.2	4.2	57-152	480	94.0%	0.99	0.96	EUM-480S420Mx		
0.435-5.6	4.35-5.6	5.6	43-110	480	94.0%	0.99	0.96	EUM-480S560Mx ⁽⁵⁾		
0.86-10	8.6-10	10	24-56	480	94.0%	0.99	0.96	EUM-480S10AMx ⁽⁵⁾		

Notes: (1) Output current range with constant power at 480W.

- (2) Measured at 100% load and 220Vac input (see below "General Specifications" for details).
- (3) Certified input voltage range: UL, FCC 100-277Vac; otherwise 100-240Vac.
- (4) x = G are UL Recognized, ENEC and CCC, etc. models; x = T are UL Class P models.

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

Specifications are subject to changes without notice.

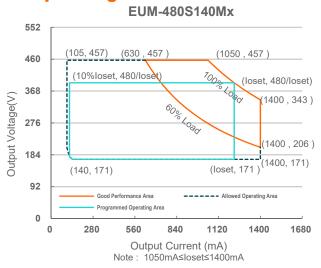
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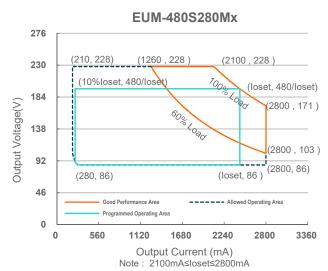
Tel: 86-571-56565800 Fax: 86-571-86601139 sales@inventronics-co.com

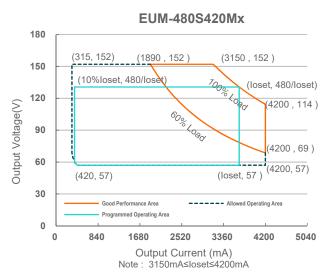
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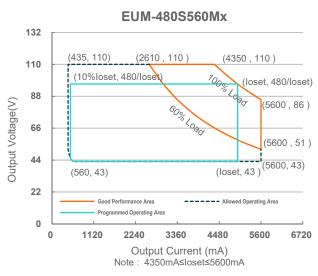
(5) SELV output.

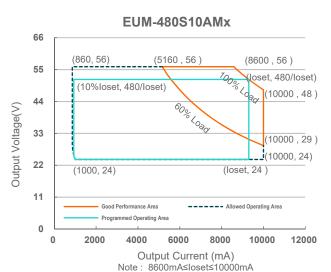
I-V Operating Area











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Rev.C

Input Specifications

Parameter	Min.	Тур.	Max.	Notes
Input AC Voltage	90 Vac	-	305 Vac	
Input DC Voltage	127 Vdc	-	250 Vdc	
Input Frequency	47 Hz	-	63 Hz	
Laskana Cumant	-	-	0.75 MIU	UL 8750; 277Vac/ 60Hz
Leakage Current	-	-	0.70 mA	IEC 60598-1; 240Vac/ 60Hz
Input AC Current	-	-	4.82 A	Measured at 100% load and 120 Vac input.
Input AC Current	-	-	2.61 A	Measured at 100% load and 220 Vac input.
Inrush Current(I ² t)	-	-	1.03 A ² s	At 220Vac input, 25°C cold start, duration=6.52ms, 10%lpk-10%lpk.
PF	0.90	-	-	At 100-277Vac, 50-60Hz, 60%-100% Load
THD	-	-	20%	(288- 480W)
THD	-	-	10%	At 220-240Vac, 50-60Hz, 75%-100% Load (360-480W)

Output Specifications

Parameter	Min.	Тур.	Max.	Notes
Output Current Tolerance	-5%loset	-	5%loset	100% load
Output Current Setting(loset) Range				
EUM-480S140Mx	105 mA	_	1400 mA	
EUM-480S280Mx	210 mA	-	2800 mA	
EUM-480S420Mx	315 mA	-	4200 mA	
EUM-480S560Mx	435 mA	-	5600 mA	
EUM-480S10AMx	860 mA	-	10000 mA	
Output Current Setting Range with Constant Power				
EUM-480S140Mx	1050 mA	-	1400 mA	
EUM-480S280Mx	2100 mA	-	2800 mA	
EUM-480S420Mx	3150 mA	-	4200 mA	
EUM-480S560Mx	4350 mA	-	5600 mA	
EUM-480S10AMx	8600 mA	-	10000 mA	
Total Output Current Ripple (pk-pk)	-	5%lomax	10%lomax	100% load, 20 MHz BW
Output Current Ripple at < 200 Hz (pk-pk)	-	2%lomax	-	100% load
Startup Overshoot Current	-	-	10%lomax	100% load
No Load Output Voltage EUM-480S140Mx			500 V	
EUM-480S280Mx	-	-	280 V	
EUM-480S280WX EUM-480S420MX	-	_	280 V 190 V	
EUM-480S560Mx	_	_	120 V	
EUM-480S300WX EUM-480S10AMX	_	_	60 V	
Line Regulation	-	-	±0.5%	100% load
Load Regulation	-	-	±1.5%	



Rev.C

Output Specifications (Continued)

Parameter	Min.	Тур.	Max.	Notes
Turn-on Delay Time	-	-	0.5 s	Measured at 120-277Vac 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	
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 1.3 ms in a 5.2ms period during which time the average should not exceed 250mA.

General Specifications

Ceneral opecinications				
Parameter	Min.	Тур.	Max.	Notes
Efficiency at 120 Vac input:				
EUM-480S140Mx				
lo= 1050 mA	90.5%	92.5%	-	
Io= 1400 mA	91.0%	93.0%	-	
EUM-480S280Mx				
lo= 2100 mA	90.5%	92.5%	-	M + 4000/
lo= 2800 mA	90.5%	92.5%	-	Measured at 100% load and steady-state
EUM-480S420Mx	00 50/	00.50/		temperature in 25°C ambient;
lo= 3150 mA lo= 4200 mA	90.5% 90.0%	92.5% 92.0%	-	(Efficiency will be about 2.0% lower if
EUM-480S560Mx	90.076	92.0%	-	measured immediately after startup.)
lo= 4350 mA	90.0%	92.0%	_	
Io= 5600 mA	90.5%	92.5%	_	
EUM-480S10AMx	00.070	02.070		
Io= 8600 mA	90.5%	92.5%	-	
lo= 10000 mA	90.0%	92.0%	-	
Efficiency at 220 Vac input:				
EUM-480S140Mx				
Io= 1050 mA	92.5%	94.5%	-	
Io= 1400 mA	92.5%	94.5%	-	
EUM-480S280Mx	00.00/	0.4.00/		
lo= 2100 mA	92.0%	94.0%	-	Measured at 100% load and steady-state
lo= 2800 mA EUM-480S420Mx	92.0%	94.0%	-	temperature in 25°C ambient;
lo= 3150 mA	92.0%	94.0%		(Efficiency will be about 2.0% lower if
lo= 4200 mA	92.0%	94.0%	_	measured immediately after startup.)
EUM-480S560Mx	02.070	01.070		ineasured infinediately after startup.)
Io= 4350 mA	92.0%	94.0%	_	
Io= 5600 mA	92.0%	94.0%	-	
EUM-480S10AMx				
Io= 8600 mA	92.0%	94.0%	-	
lo= 10000 mA	92.0%	94.0%	-	



Rev.C

General Specifications (Continued)

Parame	Parameter		Тур.	Max.	Notes
Efficiency at 277 Va EUM-480S140Mx	Efficiency at 277 Vac input: EUM-480S140Mx				
	lo= 1050 mA lo= 1400 mA	93.0% 93.0%	95.0% 95.0%	-	
EUM-480S280Mx	lo= 2100 mA lo= 2800 mA	92.5% 92.5%	94.5% 94.5%	-	Measured at 100% load and steady-state
EUM-480S420Mx	lo= 3150 mA	92.5%	94.5%	_	temperature in 25°C ambient; (Efficiency will be about 2.0% lower if
EUM-480S560Mx	Io= 4200 mA	92.0%	94.0%	-	measured immediately after startup.)
EUM-480S10AMx	lo= 4350 mA lo= 5600 mA	92.0% 92.0%	94.0% 94.0%	-	
EUM-4805 TUAIMX	Io= 8600 mA Io= 10000 mA	92.0% 92.5%	94.0% 94.5%	-	
Standby Power		-	-	0.5 W	Measured at 230Vac/50Hz; Dimming off
MTBF		-	293,000 Hours	-	Measured at 220Vac input, 80%Load and 25°C ambient temperature (MIL-HDBK-217F)
Lifetime		-	102,000 Hours	-	Measured at 220Vac input, 80%Load and 70°C case temperature; See lifetime vs. To curve for the details
		-	107,000 Hours	-	Measured at 220Vac input, 100%Load and 40°C ambient temperature
Operating Case Tell Safety Tc s	mperature for	-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)		9.57 × 3.54 × 1.71 243 × 90 × 43.5			With mounting ear 10.31 × 3.54 × 1.71 262 × 90 × 43.5
Net Weight		-	1864 g	-	

Dimming Specifications

Parameter		Min.	Тур.	Max.	Notes
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
Dimming Output Range with 10%-100% (Default)	EUM-480S140Mx EUM-480S280Mx EUM-480S420Mx EUM-480S560Mx EUM-480S10AMx	10%loset	-	loset	1050 mA ≤ loset ≤ 1400 mA 2100 mA ≤ loset ≤ 2800 mA 3150 mA ≤ loset ≤ 4200 mA 4350 mA ≤ loset ≤ 5600 mA 8600 mA ≤ loset ≤ 10000 mA
	EUM-480S140Mx EUM-480S280Mx EUM-480S420Mx EUM-480S560Mx EUM-480S10AMx	-480S140Mx 105 mA -480S280Mx 210 mA -480S420Mx 315 mA -480S560Mx 435 mA		loset	105 mA ≤ loset < 1050 mA 210 mA ≤ loset < 2100 mA 315 mA ≤ loset < 3150 mA 435 mA ≤ loset < 4350 mA 860 mA ≤ loset < 8600 mA



Rev.C

Dimming Specifications (Continued)

Р	arameter	Min.	Тур.	Max.	Notes
Dimming Output	EUM-480S140Mx EUM-480S280Mx EUM-480S420Mx EUM-480S560Mx EUM-480S10AMx	5%loset	-	loset	1050 mA ≤ loset ≤ 1400 mA 2100 mA ≤ loset ≤ 2800 mA 3150 mA ≤ loset ≤ 4200 mA 4350 mA ≤ loset ≤ 5600 mA 8600 mA ≤ loset ≤ 10000 mA
Range with 5%-100% (Settable)	EUM-480S140Mx EUM-480S280Mx EUM-480S420Mx EUM-480S560Mx EUM-480S10AMx	53 mA 105 mA 158 mA 218 mA 430 mA	-	loset	105 mA ≤ loset < 1050 mA 210 mA ≤ loset < 2100 mA 315 mA ≤ loset < 3150 mA 435 mA ≤ loset < 4350 mA 860 mA ≤ loset < 8600 mA
Recommend Range	ed Dimming Input	0 V	-	10 V	
Dim off Volta	ge	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	Default 0-10V diffilling filode.
Hysteresis	Hysteresis		0.2 V	-	7
PWM_in Hig	h Level	3 V	-	10 V	
PWM_in Low	v Level	-0.3 V	-	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		7%	10%	- Frogrammy Software.
PWM Dimming off (Negative Logic)		92%	95%	97%	
	ng on (Negative	90%	93%	95%	
Hysteresis		-	2%	-	

Safety & EMC Compliance

Safety Category	Standard
UL/CUL	UL 8750,CAN/CSA-C22.2 No. 250.13
ENEC & CE	EN 61347-1, EN 61347-2-13
UKCA	BS EN 61347-1, BS EN 61347-2-13
СВ	IEC 61347-1, IEC 61347-2-13
CCC	GB 19510.1, GB 19510.14
KC	KC 61347-1, KC 61347-2-13
EAC	TP TC 004, TP TC 020
global-mark	AS/NZS 61347.1, AS/NZS 61347.2.13
Performance	Standard
ENEC	EN 62384

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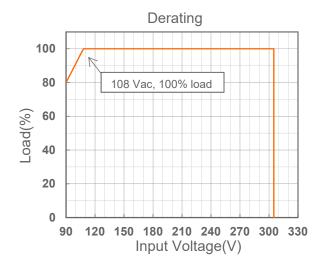
Rev.C

Safety &EMC Compliance (Continued)

EMI Standards	Notes			
BS EN/EN IEC 55015/GB/T 17743/KS C 9815 ⁽¹⁾	Conducted emission Test &Radiated emission Test			
BS EN/EN IEC 61000-3-2/GB 17625.1	Harmonic current emissions			
BS EN/EN 61000-3-3	Voltage fluctuations & flicker			
	ANSI C63.4 Class B			
FCC Part 15 ⁽¹⁾	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			
BS EN/EN 61000-4-2	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge			
DC EN/EN 64000 4 3				
BS EN/EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS			
BS EN/EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS Electrical Fast Transient / Burst-EFT			
BS EN/EN 61000-4-4	Electrical Fast Transient / Burst-EFT			
BS EN/EN 61000-4-4 BS EN/EN 61000-4-5	Electrical Fast Transient / Burst-EFT Surge Immunity Test: AC Power Line: Differential Mode 6 kV, Common Mode 10 kV			
BS EN/EN 61000-4-4 BS EN/EN 61000-4-5 BS EN/EN 61000-4-6	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			

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.

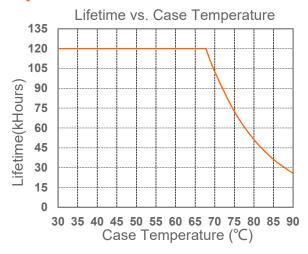
Dreating



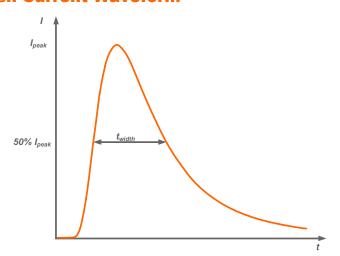
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Lifetime vs. Case Temperature

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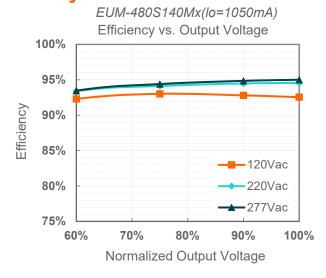


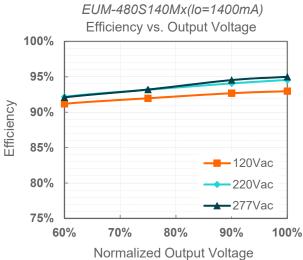
Inrush Current Waveform



Input AC Voltage	I _{peak}	t _{width} (@ 50% Ipeak)	
220Vac	14.5A	2.0ms	

Efficiency vs. Load



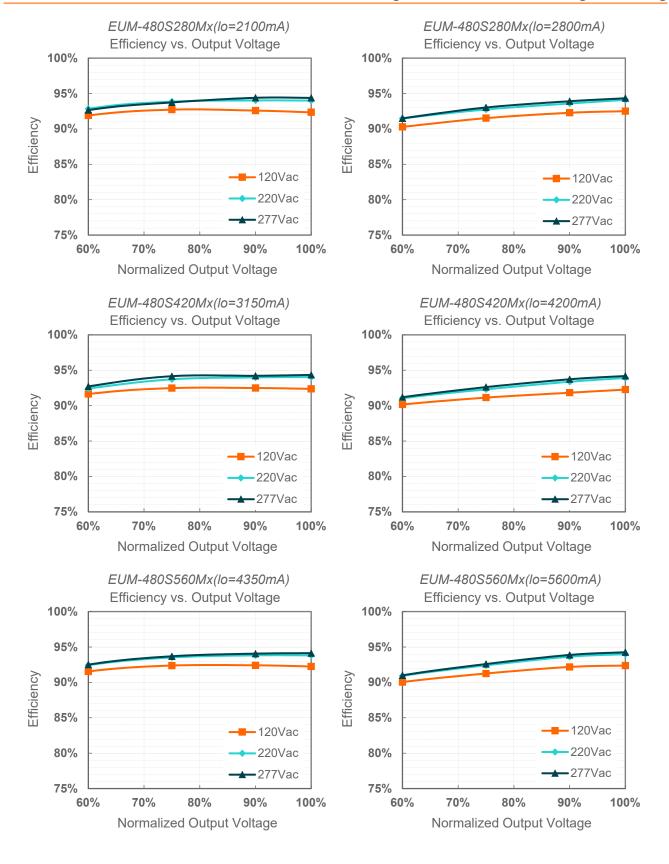


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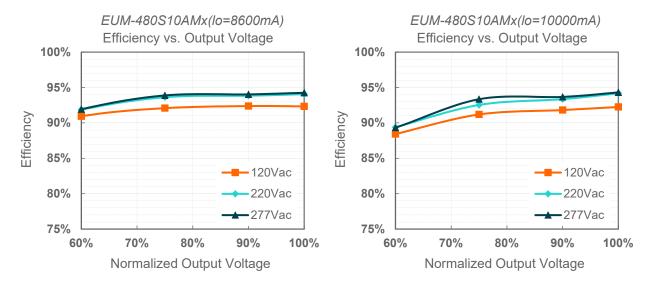
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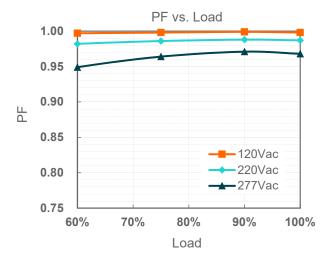


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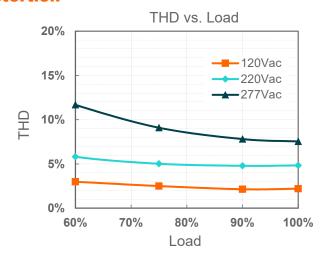
480W Programmable Driver with INV Digital Dimming



Power Factor



Total Harmonic Distortion



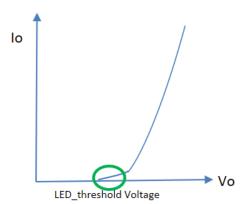
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480W Programmable Driver with INV Digital Dimming

Hot-plugging Protection

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



LED threshold voltage (Vth) is the minimum voltage required for current to flow through the LED load. After this threshold is met, the LED forward voltage (Vf) increases as the current increases.

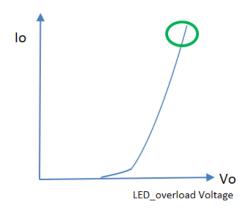
Set Vth close to, but higher than the actual LED threshold voltage for optimized performance. The greater the difference between the Vth setting and the actual LED threshold voltage, the higher the overshoot current will be. The Vth setting must be lower than Vf.

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

Parameter			Min.	Тур.	Max.	Notes
		EUM-480S140Mx		-	457V	
LED Threshold Voltage Setting	EUM-480S280Mx	129V	-	228V		
		EUM-480S420Mx	86V	-	152V	Set Vth close to, but higher than the actual LED threshold voltage
Protection	pragging	EUM-480S560Mx	64V	-	110V	voltage
		EUM-480S10AMx	36V	-	56V	
	Setting Tolerance		-2%	-	2%	

Parallel LED Protection

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



Set V_overload close to, but higher than the maximum forward voltage for optimized performance. The greater the difference between the V_overload setting and the maximum forward voltage, the higher the overload stress will be. The V_overload setting must be higher than Vf.

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

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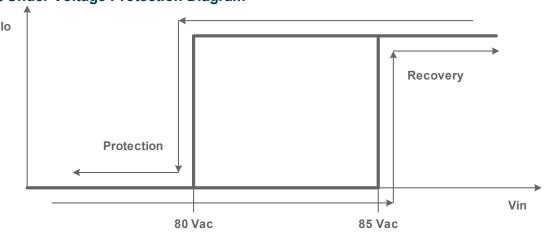
Parallel LED Protection (Continued)

Parameter			Min.	Тур.	Max.	Notes
Parallel LED Protection	Overload Voltage Setting Range	EUM-480S140Mx	257V	-	480V	Set V_overload close to, but higher than the maximum LED forward voltage
		EUM-480S280Mx	129V	-	240V	
		EUM-480S420Mx	86V	-	160V	
		EUM-480S560Mx	64V	-	115V	
		EUM-480S10AMx	36V	-	57V	
	Setting Tolerance		-2%	-	2%	

Protection Functions

Parameter		Min.	Тур.	Max.	Notes		
Over Temperature Protection		Decreases output current, returning to normal after over temperature is removed.					
Short Circuit Protection		Auto Recovery. No damage will occur when any output is short circuited. The output shall return to normal when the fault condition is removed.					
Over Voltage Protection		Limits output voltage at no load and in case the normal voltage limit fails.					
Input Under Voltage Protection (IUVP)	Input Protection Voltage	70 Vac	80 Vac	90 Vac	Turn off the output when the input voltage falls below protection voltage.		
	Input Recovery Voltage	75 Vac	85 Vac	95 Vac	Auto Recovery. The driver will restart when the input voltage exceeds recovery voltage.		
Input Over Voltage Protection (IOVP)	Input Over Voltage Protection	310 Vac	320 Vac	330 Vac	Turn off the output when the input voltage exceeds protection voltage.		
	Input Over Voltage Recovery	300 Vac	310 Vac	320 Vac	Auto Recovery. The driver will restart when the input voltage falls below recovery voltage.		
	Max. of Input Over Voltage			350 Vac	The driver can survive for 8 hours with a stable input voltage stress of 350Vac.		

Input Under Voltage Protection Diagram



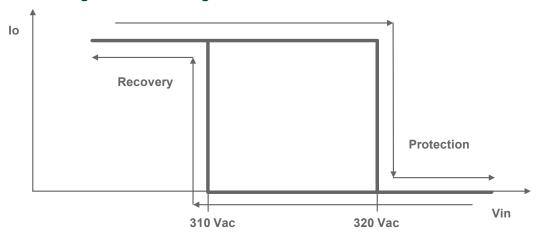
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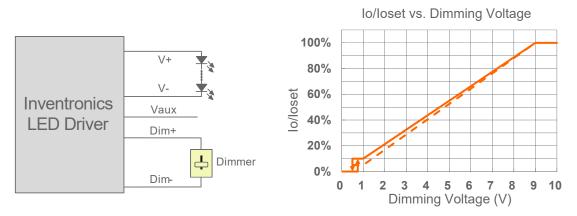
Input Over Voltage Protection Diagram



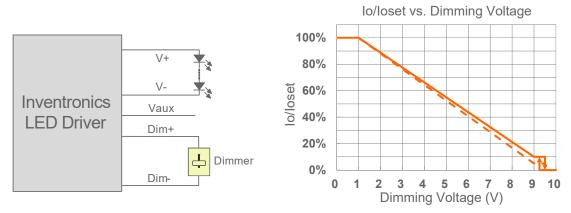
Dimming

0-10V Dimming

The recommended implementation of the dimming control is provided below.



Implementation 1: Positive logic



Implementation 2: Negative logic

Notes:

- 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.

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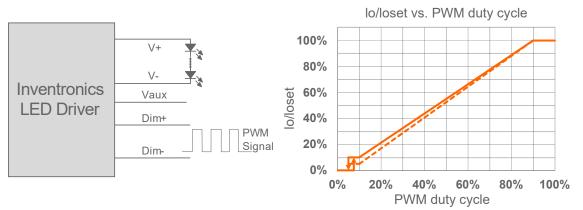
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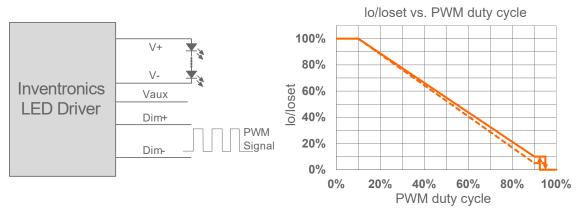
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PWM Dimming

The recommended implementation of the dimming control is provided below.



Implementation 3: Positive logic



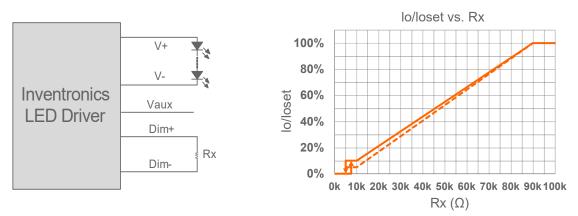
Implementation 4: Negative logic

Notes:

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

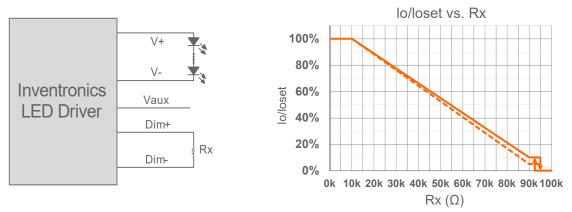
Resistor Dimming

The recommended implementation of the dimming control is provided below.



Implementation 5: Positive logic

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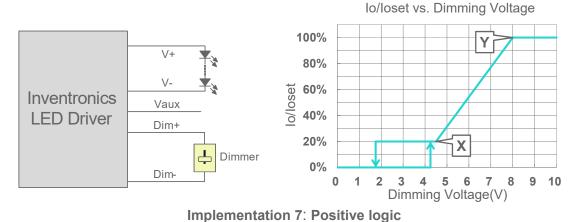
Implementation 6: Negative logic

Notes:

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

Adjustable Dimming Curve

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



Notes:

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

Time Dimming

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

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

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Rev.C

480W Programmable Driver with INV Digital Dimming

Output Lumen Compensation

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

• Minimum Dimming Level with 5% or 10% Selectable

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

Hold Time Adjustable

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

Fade Time Adjustable

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

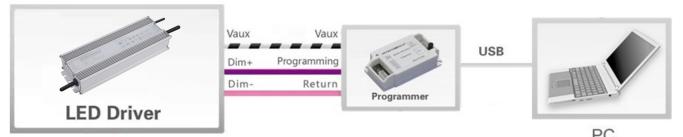
End Of Life

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

Digital Dimming

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

Programming Connection Diagram



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

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

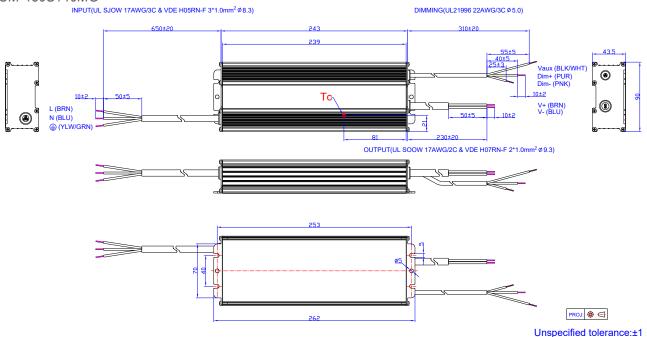
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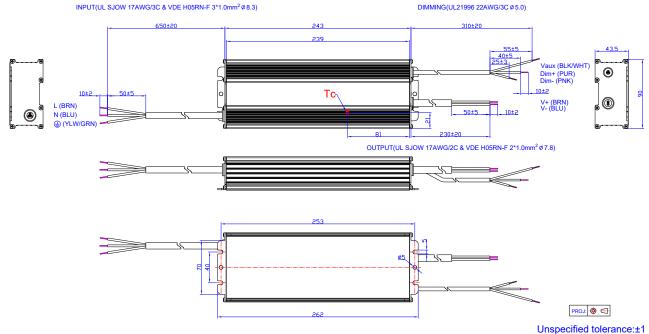
Rev.C

Mechanical Outline

EUM-480S140MG

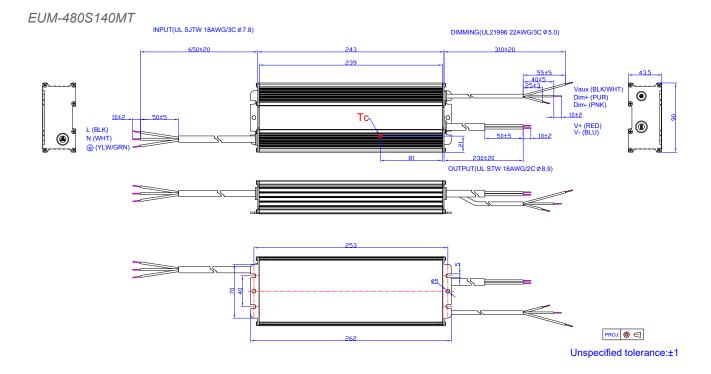


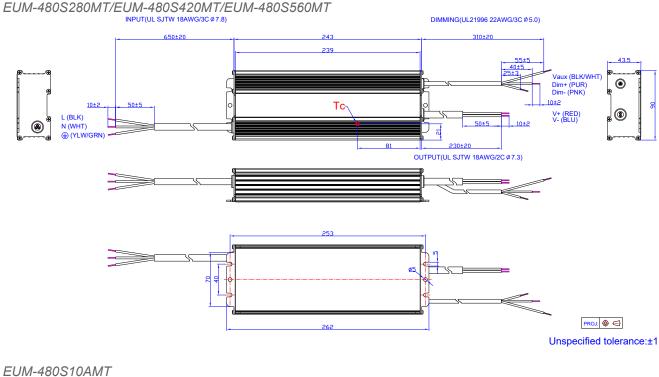
EUM-480S280MG/EUM-480S420MG/EUM-480S560MG

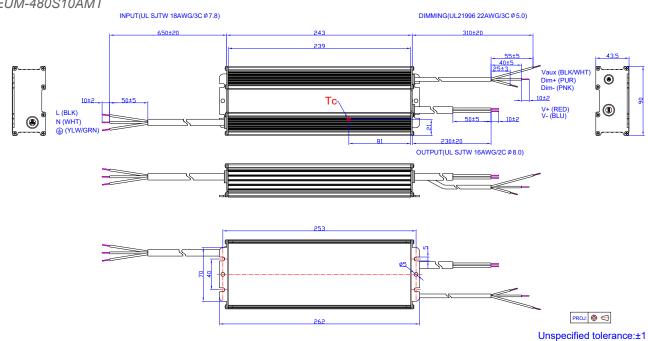


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EUM-480S10AMG INPUT(UL SJOW 17AWGGC & VDE H0SRN.F 3*1.0mm² Ø8.3) DIMMING(UL21996 22AWGGC Ø5.0) 650220 243 239 10122







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.C

480W Programmable Driver with INV Digital Dimming

Revision History

Change Date	Rev.	Description of Change					
		Item	From	То			
2023-10-27	А	Datasheet Release	/	/			
2023-11-15	В	KC/KCC	/	Added			
		Safety & EMC Compliance	KC/KCC	Added			
2023-12-14	С	Mechanical Outline	/	Updated			