Features

- Hot-plugging Protection
- Parallel LED Protection
- Ultra High Efficiency (Up to 96%)
- Full Power at Wide Output Current Range (Constant Power)
- Adjustable Output Current (AOC) with Programmability
- Isolated 0-10V/PWM/Resistor/3-Timer-Modes Dimmable
- INV Digital Dimming, UART Based Communication Protocol
- Dim-to-Off
- Minimum Dimming Level with 5% or 10% Selectable
- Maximum Dimming Level with 9V or 10V Selectable
- 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
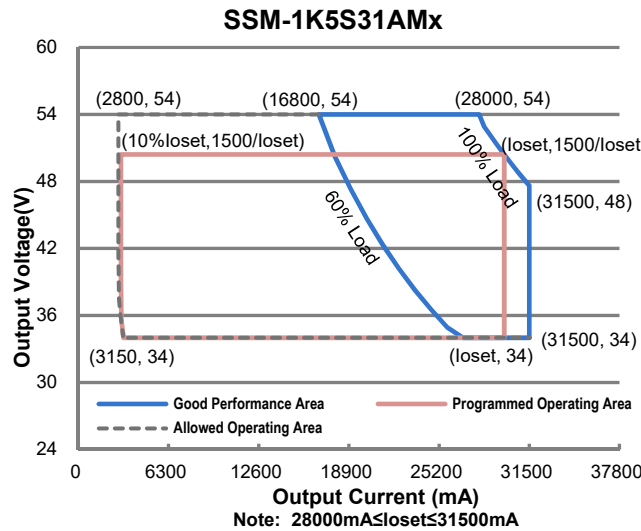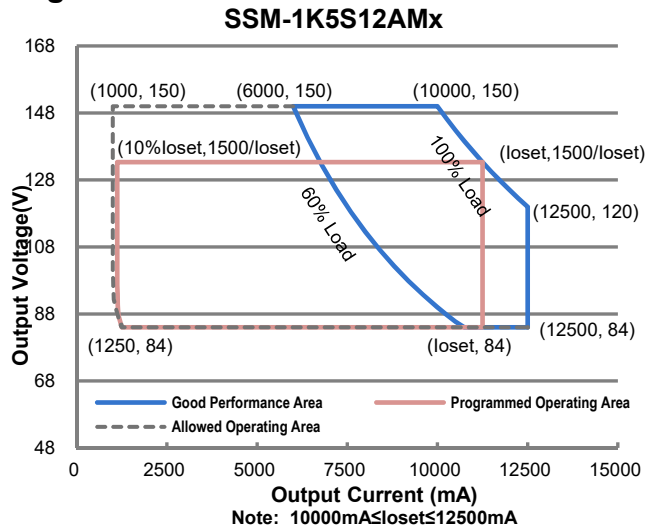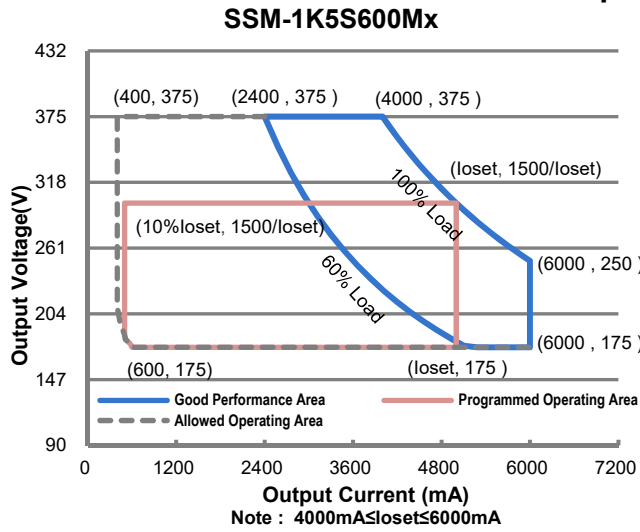- 5 Years Warranty

Description

The *SSM-1K5SxxxMx* series is a 1500W, constant-current, programmable and IP66/IP67 rated LED driver that operates from 249-528Vac 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 Current Range	Full-Power Current Range(1)	Default Output Current	Input Voltage Range(2)	Output Voltage Range	Max. Output Power	Typical Efficiency (3)	Typical Power Factor		Model Number
							277Vac	480Vac	
0.4-6.0A	4.0-6.0A	4.0 A	249~528Vac 352~500Vdc	175 ~ 375Vdc	1500W	96.0%	0.99	0.96	SSM-1K5S600Mx[4]
1-12.5A	10-12.5A	11.5 A	249~528Vac 352~500Vdc	84 ~ 150Vdc	1500W	95.5%	0.99	0.96	SSM-1K5S12AMx[4]
2.8-31.5A	28-31.5A	28 A	249~528Vac 352~500Vdc	34 ~ 54Vdc	1500W	96.0%	0.99	0.96	SSM-1K5S31AMx[5]

Notes: (1) Output current range with constant power at 1500W.
(2) Certified input voltage range: 277-480Vac
(3) Measured at 100% load and 480Vac input (see below "General Specifications" for details).
(4) x = G are UL Recognized, CE, CCC, global-mark, etc. models; x = T are UL Recognized, CE(built-in use), etc. models.
(5) SELV output,x = G are UL Recognized, CE, etc. models; x = T are UL Recognized, CE(built-in use), etc. models.

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I-V Operating Area

SSM-1K5S600Mx

Note : 4000mA≤Ioset≤6000mA

SSM-1K5S12AMx

Note: 10000mA≤Ioset≤12500mA

SSM-1K5S31AMx

Note: 28000mA≤Ioset≤31500mA

Input Specifications

Parameter	Min.	Typ.	Max.	Notes
Input AC Voltage	249 Vac	-	528 Vac	
Input DC Voltage	352 Vdc	-	500 Vdc	
Input Frequency	47 Hz	-	63 Hz	
Leakage Current	-	-	0.75 MIU	UL 8750; 480Vac/60Hz
			0.70 mA	IEC 60598-1; 480Vac/60Hz, grounding effectively
Input AC Current	-	-	6.44 A	Measured at 100% load and 277 Vac input.
	-	-	3.72 A	Measured at 100% load and 480 Vac input.
Inrush Current(I^2t)	-	-	4.52 A^2s	At 480Vac input, 25℃ cold start, duration=22.7ms, 10%Ipk-10%Ipk. See Inrush Current Waveform for the details.

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Input Specifications (Continued)

Parameter	Min.	Typ.	Max.	Notes
PF	0.90	-	-	At 277-480Vac, 50-60Hz, 60%-100% Load (900 - 1500W)
THD	-	-	20%	

Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Output Current Tolerance	-5%Ioset	-	5%Ioset	100% load
Output Current Setting(Ioset Range) SSM-1K5S600Mx SSM-1K5S12AMx SSM-1K5S31AMx	 400 mA 1000 mA 2800 mA	 - - -	 6000 mA 12500 mA 31500 mA	
Output Current Setting Range with Constant Power SSM-1K5S600Mx SSM-1K5S12AMx SSM-1K5S31AMx	 4000 mA 10000 mA 28000 mA	 - - -	 6000 mA 12500 mA 31500 mA	
Total Output Current Ripple (pk-pk)	-	5%Iomax	10%Iomax	100% load, 20 MHz BW
Output Current Ripple at < 200 Hz (pk-pk)	-	-	2%Iomax	60%-100% load
Startup Overshoot Current	-	-	10%Iomax	100% load
No Load Output Voltage SSM-1K5S600Mx SSM-1K5S12AMx SSM-1K5S31AMx	 - - -	 - - -	 420 V 170 V 60 V	
Line Regulation	-	-	$\pm0.5\%$	100% load
Load Regulation	-	-	$\pm3.0\%$	
Turn-on Delay Time	-	-	0.5 s	Measured at 277-480 Vac input, 60%-100% Load
Temperature Coefficient of Ioset	-	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

Parameter	Min.	Typ.	Max.	Notes
Efficiency at 277 Vac input: SSM-1K5S600Mx				Measured at 100% load and steady-state temperature in 25°C ambient; (Efficiency will be about 2.0% lower if measured immediately after startup.)
Io= 4000 mA	93.0%	95.0%	-	
Io= 6000 mA	93.5%	95.5%	-	
SSM-1K5S12AMx				
Io= 10000 mA	92.0%	94.0%	-	
Io= 12500 mA	92.0%	94.0%	-	
SSM-1K5S31AMx				
Io= 28000 mA	92.5%	94.5%	-	
Io= 31500 mA	92.5%	94.5%	-	
Efficiency at 400 Vac input: SSM-1K5S600Mx				Measured at 100% load and steady-state temperature in 25°C ambient; (Efficiency will be about 2.0% lower if measured immediately after startup.)
Io= 4000 mA	94.0%	96.0%	-	
Io= 6000 mA	94.0%	96.0%	-	
SSM-1K5S12AMx				
Io= 10000 mA	93.0%	95.0%	-	
Io= 12500 mA	93.0%	95.0%	-	
SSM-1K5S31AMx				
Io= 28000 mA	94.0%	96.0%	-	
Io= 31500 mA	94.0%	96.0%	-	
Efficiency at 480 Vac input: SSM-1K5S600Mx				Measured at 100% load and steady-state temperature in 25°C ambient; (Efficiency will be about 2.0% lower if measured immediately after startup.)
Io= 4000 mA	94.0%	96.0%	-	
Io= 6000 mA	94.0%	96.0%	-	
SSM-1K5S12AMx				
Io= 10000 mA	93.0%	95.0%	-	
Io= 12500 mA	93.5%	95.5%	-	
SSM-1K5S31AMx				
Io= 28000 mA	94.0%	96.0%	-	
Io= 31500 mA	94.0%	96.0%	-	
Standby Power	-	1.5 W	-	Measured at 480Vac/50Hz; Dimming off
MTBF	-	229,000 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
	-	51,000 Hours	-	Measured at 400Vac input, 100%Load and 40°C ambient temperature
Operating Case Temperature for Safety Tc_s	-40°C	-	+90°C	
Operating Case Temperature for Warranty Tc_w	-40°C	-	+80°C	Case temperature for 5 years warranty Humidity: 10%RH to 95%RH
Storage Temperature	-40°C	-	+85°C	Humidity: 5%RH to 95%RH

Dimensions
    Inches (L × W × H)
    Millimeters (L × W × H)
	18.27 × 3.54 × 1.91
	464 × 90 × 48.5
				With mounting ear
				19.25 × 3.54 × 1.91
				489 × 90 × 48.5

Net Weight	-	4125 g	-	

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Dimming Specifications

Parameter		Min.	Typ.	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)	SSM-1K5S600Mx SSM-1K5S12AMx SSM-1K5S31AMx	10%Ioset	-	Ioset	4000 mA ⩽ Ioset ⩽ 6000 mA 10000 mA ⩽ Ioset ⩽ 12500 mA 28000 mA ⩽ Ioset ⩽ 31500 mA
	SSM-1K5S600Mx SSM-1K5S12AMx SSM-1K5S31AMx	400 mA 1000 mA 2800 mA	-	Ioset	400 mA ⩽ Ioset < 4000 mA 1000 mA ⩽ Ioset < 10000 mA 2800 mA ⩽ Ioset < 28000 mA
Dimming Output Range with 5%-100% (Settable)	SSM-1K5S600Mx SSM-1K5S12AMx SSM-1K5S31AMx	5%Ioset	-	Ioset	4000 mA ⩽ Ioset ⩽ 6000 mA 10000 mA ⩽ Ioset ⩽ 12500 mA 28000 mA ⩽ Ioset ⩽ 31500 mA
	SSM-1K5S600Mx SSM-1K5S12AMx SSM-1K5S31AMx	200 mA 500 mA 1400 mA	-	Ioset	400 mA ⩽ Ioset < 4000 mA 1000 mA ⩽ Ioset < 10000 mA 2800 mA ⩽ Ioset < 28000 mA
Recommended Dimming Input Range		0 V	-	10 V	Default 0-10V dimming mode.
Dim off Voltage		0.35 V	0.5 V	0.65 V	
Dim on Voltage		0.55 V	0.7 V	0.85 V	
Hysteresis		-	0.2 V	-	
PWM_in High Level		3 V	-	10 V	Dimming mode set to PWM in Inventronics Programing Software.
PWM_in Low Level		-0.3 V	-	0.6 V	
PWM_in Frequency Range		200 Hz	-	3 KHz	
PWM_in Duty Cycle		1%	-	99%	
PWM Dimming off (Positive Logic)		3%	5%	8%	
PWM Dimming on (Positive Logic)		5%	7%	10%	
PWM Dimming off (Negative Logic)		92%	95%	97%	
PWM Dimming on (Negative Logic)		90%	93%	95%	
Hysteresis		-	2%	-	

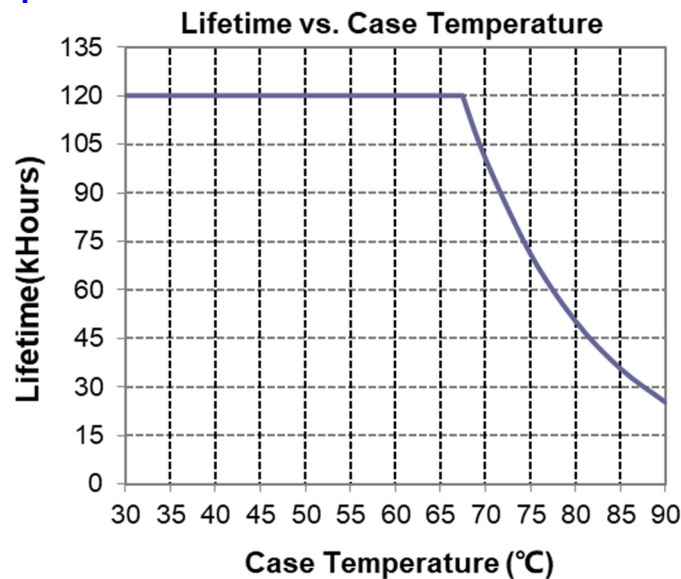## Safety &EMC Compliance

Safety Category	Standard
UL/CUL	UL 8750,CAN/CSA-C22.2 No. 250.13
CE	EN 61347-1, EN 61347-2-13
CB	IEC 61347-1, IEC 61347-2-13
CCC	GB 19510.1, GB 19510.14
global-mark	AS/NZS 61347.1, AS/NZS 61347.2.13

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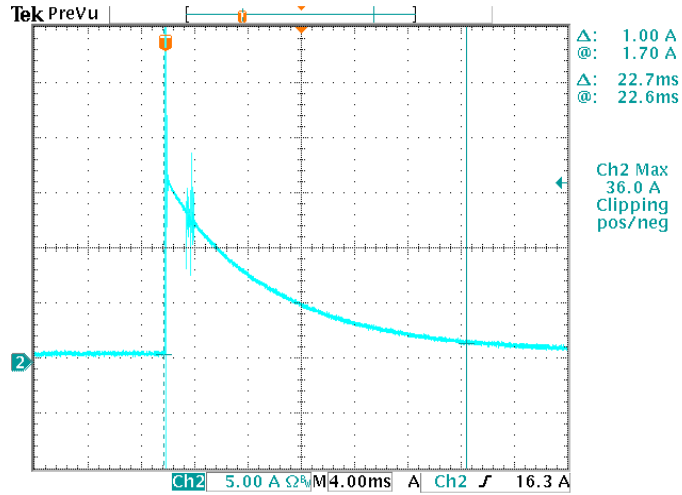## Safety &EMC Compliance (Continued)

EMI Standards	Notes
EN IEC 55015/GB/T 17743[1]	Conducted emission Test &Radiated emission Test
EN IEC 61000-3-2/GB 17625.1	Harmonic current emissions
EN 61000-3-3	Voltage fluctuations & flicker
FCC Part 15[1]	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.
EMS Standards	Notes
EN 61000-4-2	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge
EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS
EN 61000-4-4	Electrical Fast Transient / Burst-EFT
EN 61000-4-5	Surge Immunity Test: AC Power Line: Differential Mode 6 kV, Common Mode 10 kV
EN 61000-4-6	Conducted Radio Frequency Disturbances Test-CS
EN 61000-4-8	Power Frequency Magnetic Field Test
EN 61000-4-11	Voltage Dips
EN 61547	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.
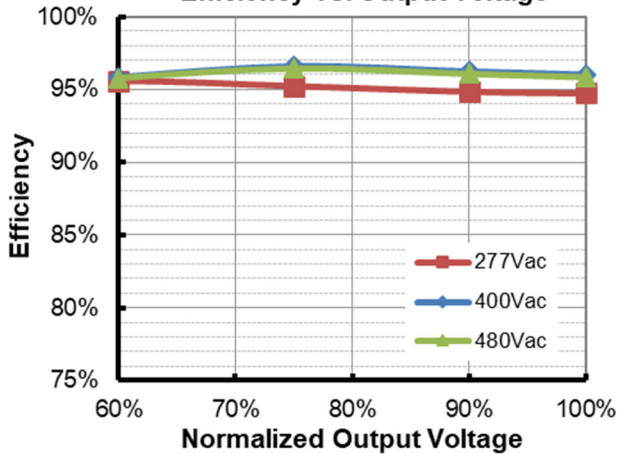
Lifetime vs. Case Temperature

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Inrush Current Waveform

Efficiency vs. Load

SSM-1K5S600Mx(Io=4000mA)

SSM-1K5S600Mx(Io=6000mA)

SSM-1K5S12AMx(Io=10000mA)
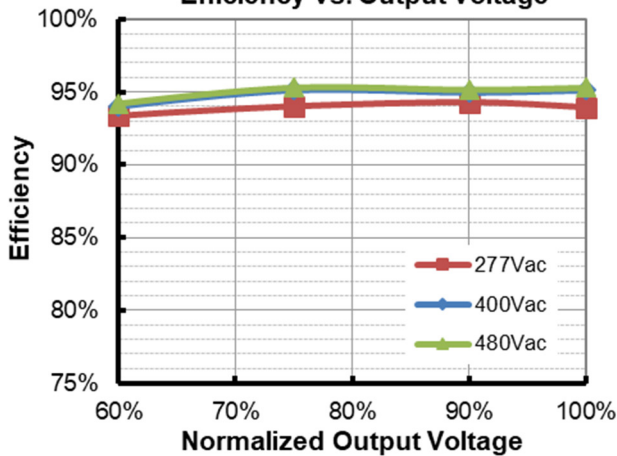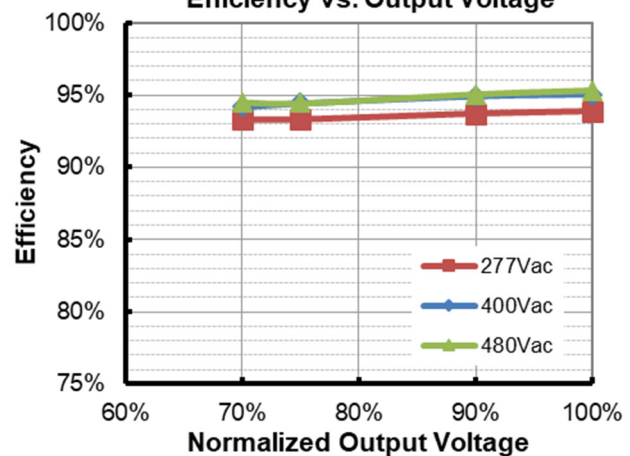

SSM-1K5S12AMx(Io=12500mA)
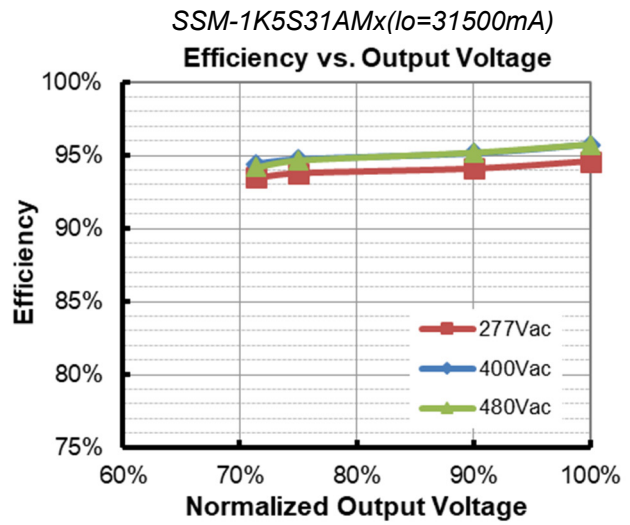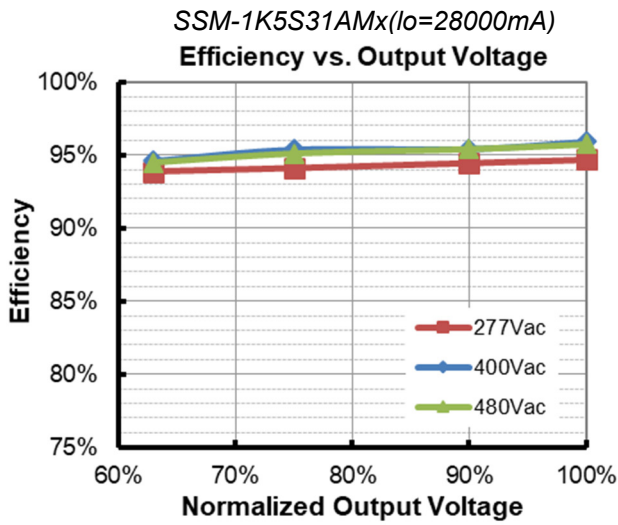
SSM-1K5S31AMx(Io=28000mA)

Efficiency vs. Output Voltage
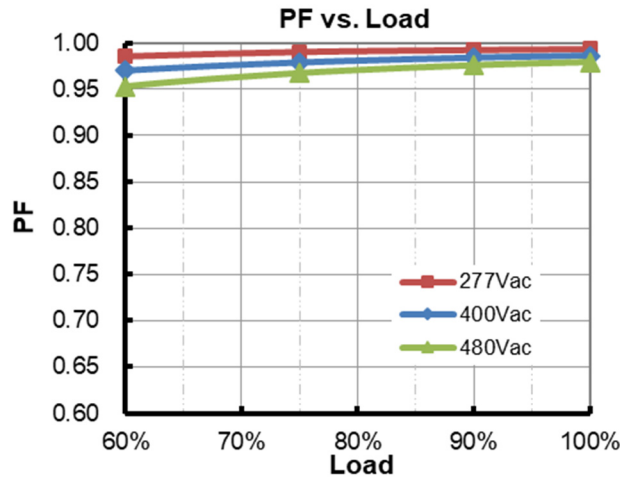
SSM-1K5S31AMx(Io=31500mA)

Efficiency vs. Output Voltage

Power Factor

PF vs. Load

Total Harmonic Distortion

THD vs. Load

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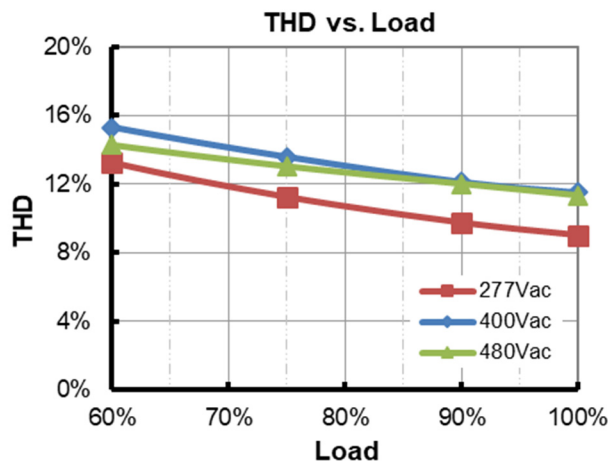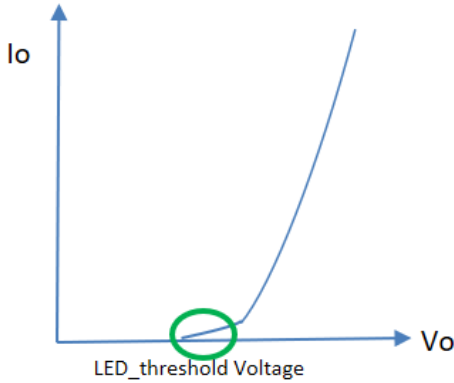
Hot-plugging Protection

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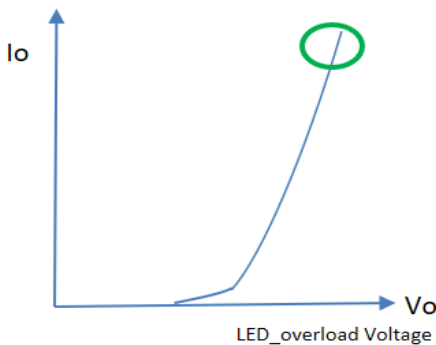
Set Vth close to, but higher than the actual LED threshold voltage for optimized performance. The greater the difference between the Vth setting and the actual LED threshold voltage, the higher the overshoot current will be. The Vth setting must be lower than Vf.

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

Parameter			Min.	Typ.	Max.	Notes
Hot-plugging Protection	LED Threshold Voltage Setting Range	SSM-1K5S600Mx	175V	-	375V	Set Vth close to, but higher than the actual LED threshold voltage
		SSM-1K5S12AMx	84V	-	150V	
		SSM-1K5S31AMx	44V	-	54V	
	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.
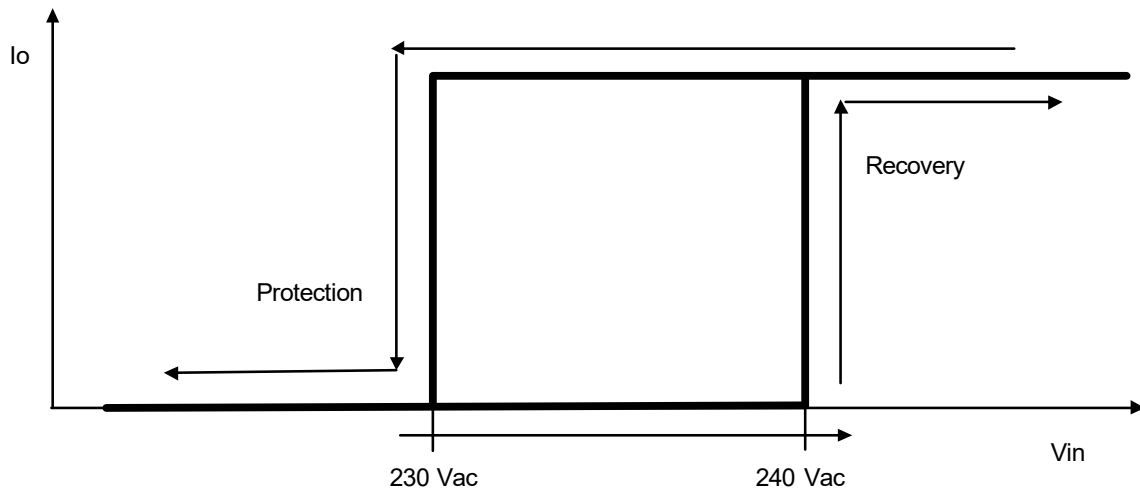
Please test, program, and tune this feature for each LED load design.

Parameter			Min.	Typ.	Max.	Notes
Parallel LED Protection	Overload Voltage Setting Range	SSM-1K5S600Mx	175V	-	390V	Set V_overload close to, but higher than the maximum LED forward voltage
		SSM-1K5S12AMx	84V	-	160V	
		SSM-1K5S31AMx	47V	-	56V	
	Setting Tolerance		-2%	-	2%	

Protection Functions

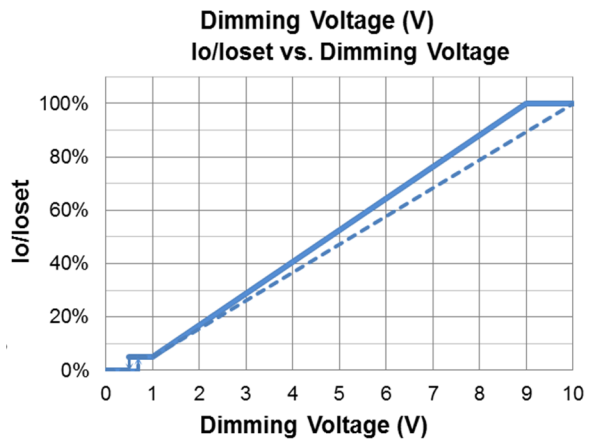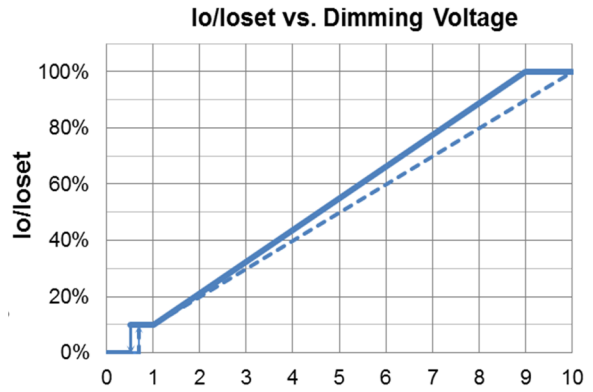| Parameter		Min.	Typ.	Max.	Notes
Over Temperature Protection		Decreases output current, returning to normal after over temperature is removed.			
Short Circuit Protection		Auto Recovery. No damage will occur when any output is short circuited. The output shall return to normal when the fault condition 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	220 Vac	230 Vac	240 Vac	Turn off the output when the input voltage falls below protection voltage.
	Input Recovery Voltage	230 Vac	240 Vac	250 Vac	Auto Recovery. The driver will restart when the input voltage exceeds recovery voltage.
Input Over Voltage Protection (IOVP)	Input Over Voltage Protection	550 Vac	570 Vac	590 Vac	Turn off the output when the input voltage exceeds protection voltage.
	Input Over Voltage Recovery	530 Vac	550 Vac	570 Vac	Auto Recovery. The driver will restart when the input voltage falls below recovery voltage.
	Max. of Input Over Voltage	-	-	590 Vac	The driver can survive for 8 hours with a stable input voltage stress of 590Vac.

● **Input Under Voltage Protection Diagram**

● **Input Over Voltage Protection Diagram**

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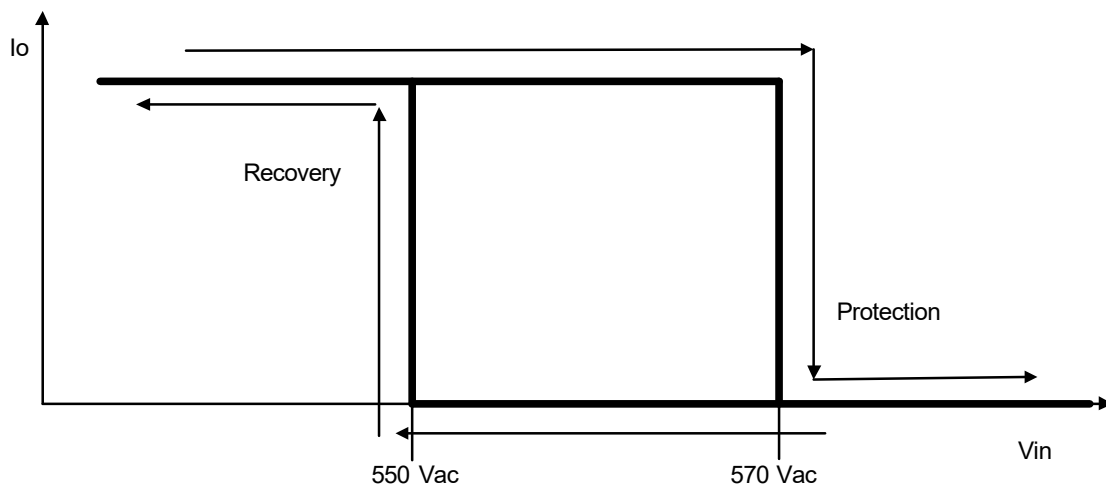
Dimming

● **0-10V Dimming**

The recommended implementation of the dimming control is provided below.
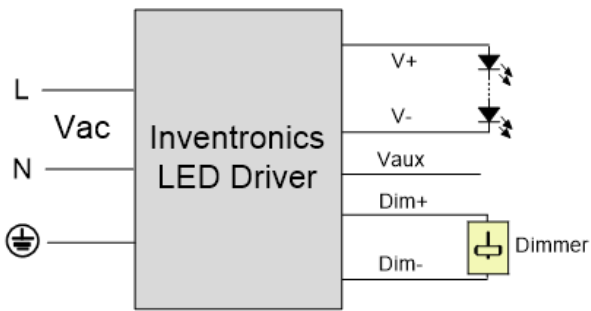
Implementation 1: **Positive logic**

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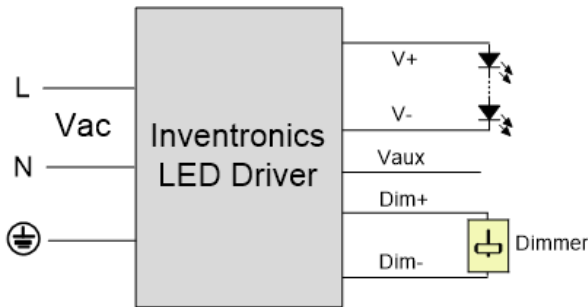
Implementation 2: Negative logic

Notes:
1. Do NOT connect 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.
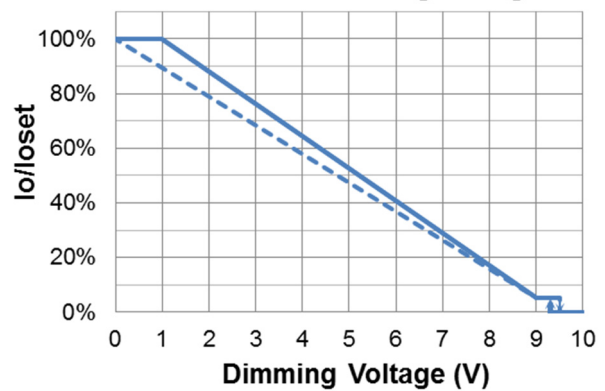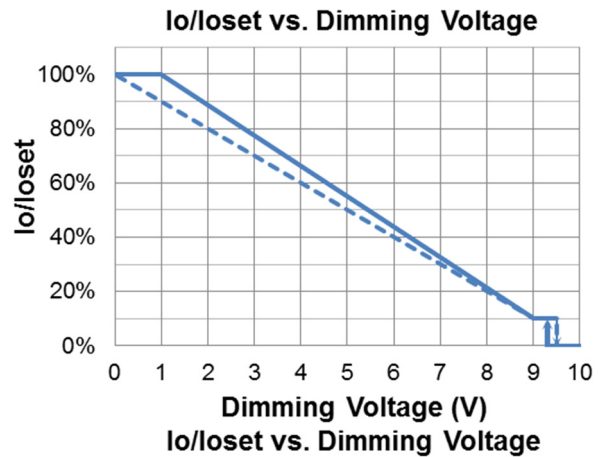3. When 0-10V negative logic dimming mode and Dim+ is open, the driver will dim to off and be standby.

● **PWM Dimming**

The recommended implementation of the dimming control is provided below.
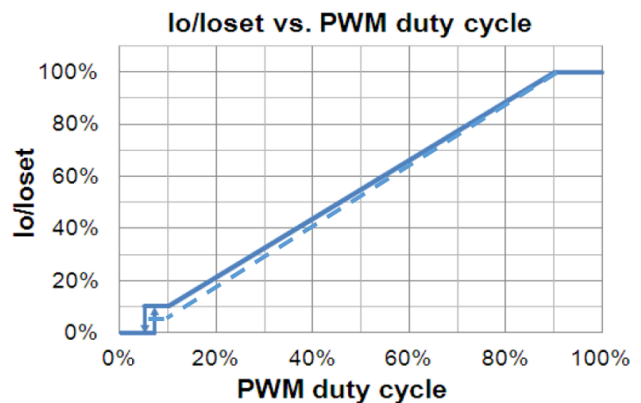
Implementation 3: Positive logic

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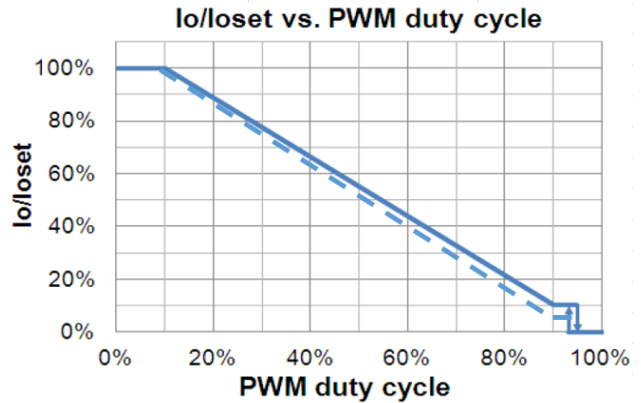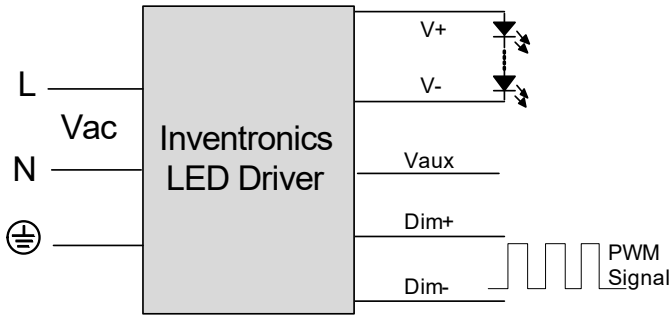
Implementation 4: **Negative logic**

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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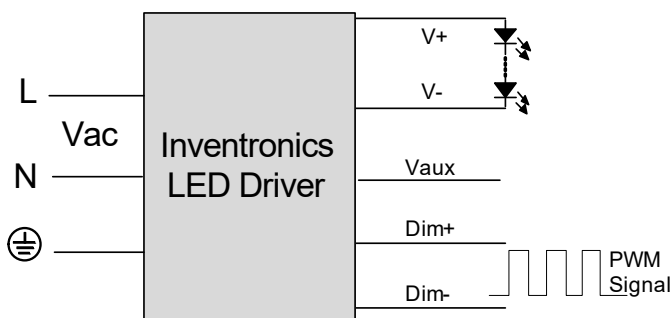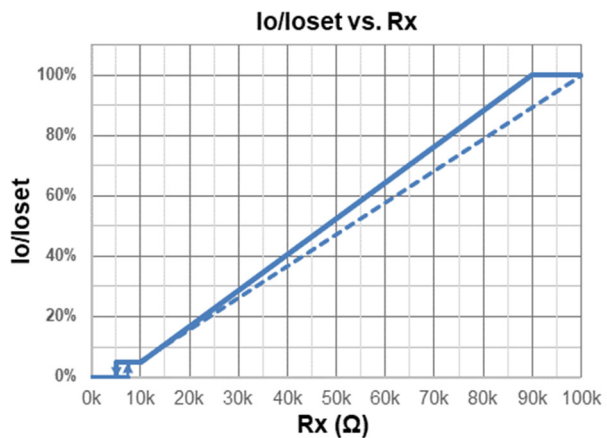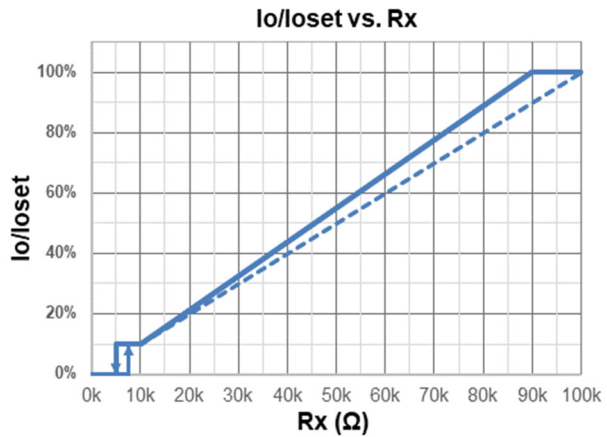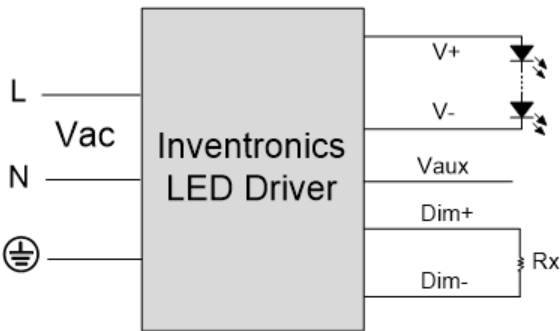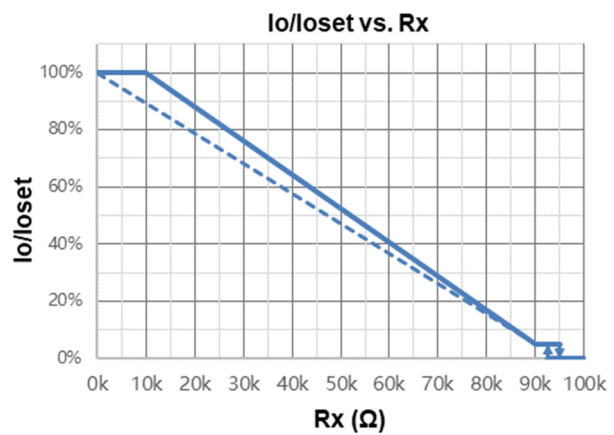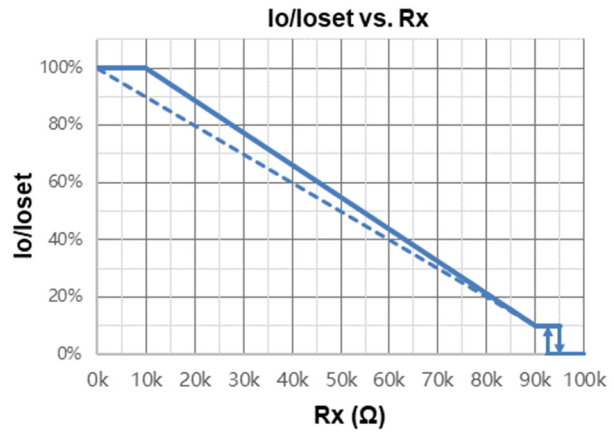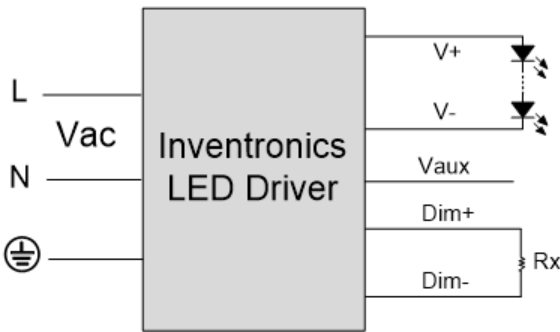
Implementation 6: **Negative logic**

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.

● **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.

● **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.

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- **Maximum Dimming Level with 9V or 10V Selectable**
  The maximum dimming level can be set as corresponding dimming voltage is 9V or 10V by Inventronics Multi Programmer,9V is default.

- **Fade Time Adjustable**
  Soft-start time and dimming slope can be adjusted by Inventronics Multi Programmer to get customized fade time experience, disable mode is 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.**

Mechanical Outline
SSM-1K5S600MG

Unspecified tolerance:±1

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SSM-1K5S12AMG

INPUT(UL SOOW 17AWG/3C&VDE H07RN-F 3*1.0mm² Ø9.8)

DIMMING(UL21996 22AWG/3C Ø5.0)

OUTPUT(UL SOOW 17AWG/2C&VDE H07RN-F 2*1.0mm² Ø9.3)

L (BRN)
N (BLU)
(YLW/GRN)

Vaux (BLK/WHT)
Dim+ (PUR)
Dim- (PNK)

V+ (BRN)
V- (BLU)
V+ (BRN)
V- (BLU)

Tc

PROJ:

Unspecified tolerance:±1

Note: The 2 DC output cables are connected in parallel internally because one 17AWG wire can only carry 8A. Please connect the 2 brown wires together and 2 blue wires together in application, and ensure each cable carries same current.

SSM-1K5S31AMG

INPUT(UL SOOW 17AWG/3C&VDE H07RN-F 3*1.0mm² Ø9.8)

DIMMING(UL21996 22AWG/3C Ø5.0)

OUTPUT(UL SJTW 14AWG/2C Ø8.8)

L (BRN)
N (BLU)
(YLW/GRN)

Vaux (BLK/WHT)
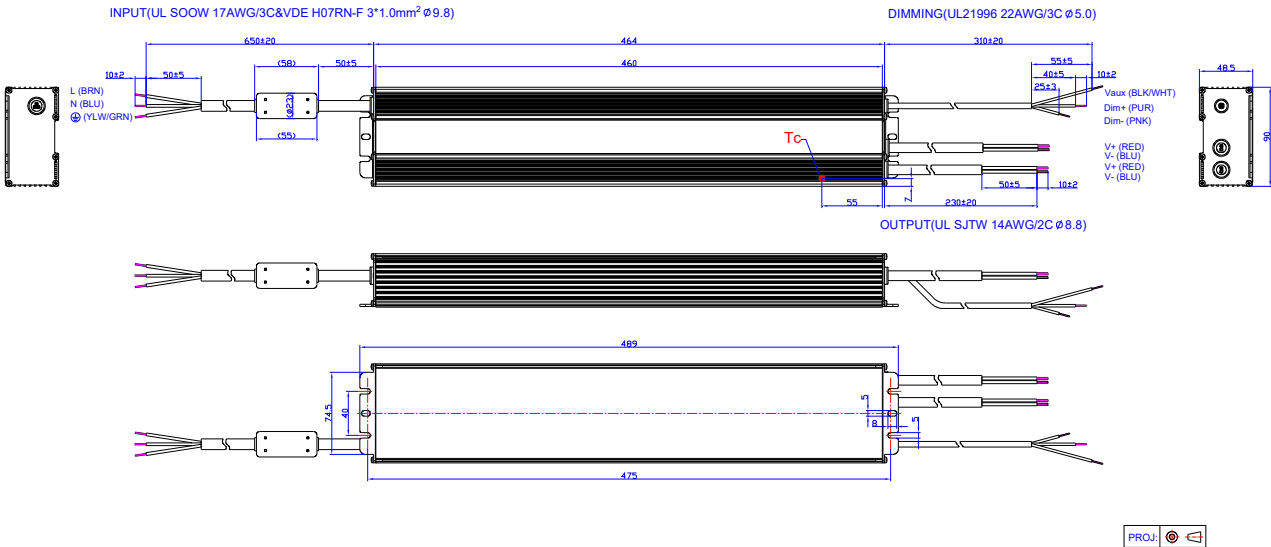Dim+ (PUR)
Dim- (PNK)

V+ (RED)
V- (BLU)
V+ (RED)
V- (BLU)

Tc

PROJ:

Unspecified tolerance:±1

Note: The 2 DC output cables are connected in parallel internally because one 14AWG wire can only carry 16A. Please connect the 2 red wires together and 2 blue wires together in application, and ensure each cable carries same current.

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SSM-1K5S600MT

INPUT(UL STW 18AWG/3C Ø9.5)

DIMMING(UL21996 22AWG/3C Ø5.0)

L1/L (BRN)
L2/N (ORG/GRY)
⏚ (YLW/GRN)

Vaux (BLK/WHT)
Dim+ (PUR)
Dim- (PNK)

V+ (RED)
V- (BLU)

OUTPUT(UL STW 18AWG/2C Ø8.9)

Tc

PROJ:

Unspecified tolerance:±1

SSM-1K5S12AMT

INPUT(UL STW 18AWG/3C Ø9.5)

DIMMING(UL21996 22AWG/3C Ø5.0)

L1/L (BRN)
L2/N (ORG/GRY)
⏚ (YLW/GRN)

Vaux (BLK/WHT)
Dim+ (PUR)
Dim- (PNK)

V+ (RED)
V- (BLU)

OUTPUT(UL SJTW 2*14AWG Ø8.8)

Tc

PROJ:

Unspecified tolerance:±1

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SSM-1K5S31AMT

INPUT(UL STW 18AWG/3C Ø9.5)

DIMMING(UL21996 22AWG/3C Ø5.0)

L1/L (BRN)
L2/N (ORG/GRY)
⏚ (YLW/GRN)

Vaux (BLK/WHT)
Dim+ (PUR)
Dim- (PNK)

V+ (RED)
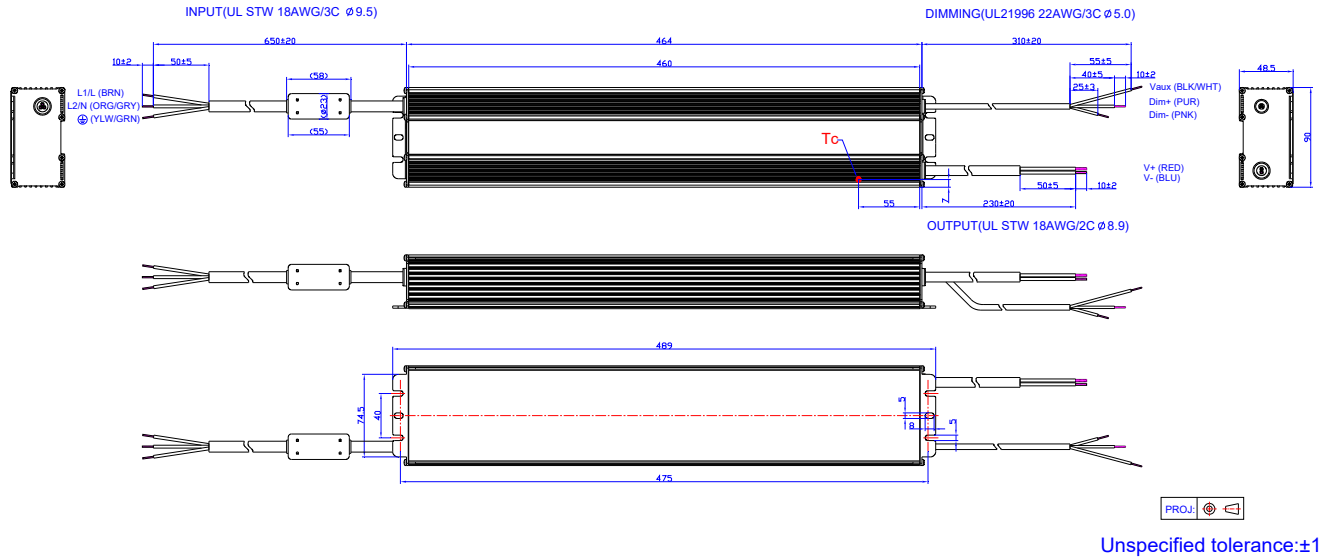V- (BLU)
V+ (RED)
V- (BLU)

OUTPUT(UL SJTW 2*14AWG Ø8.8)

Tc

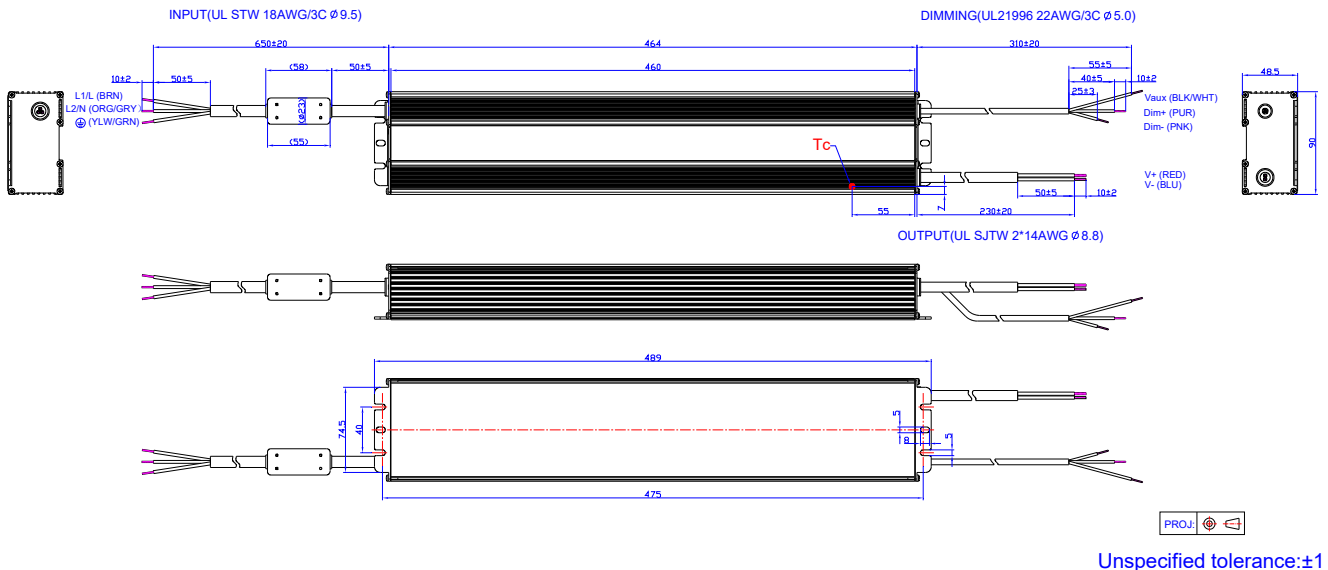PROJ:

Unspecified tolerance:±1

Note: The 2 DC output cables are connected in parallel internally because one 14AWG wire can only carry 16A. Please connect the 2 red wires together and 2 blue wires together in application, and ensure each cable carries same current.
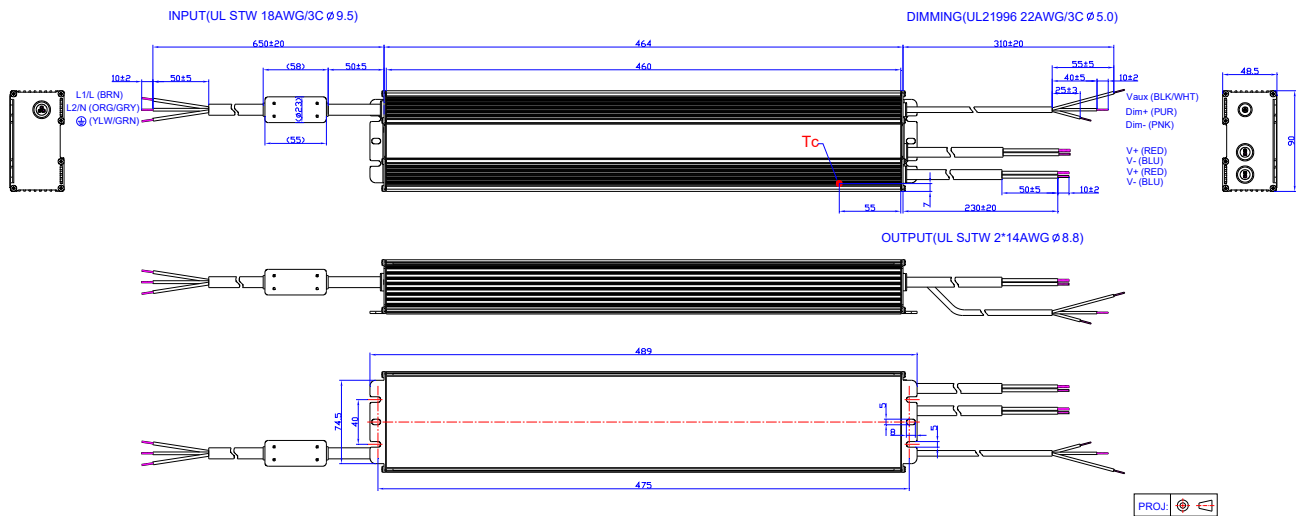
RoHS Compliance

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**	**To**
2023-07-07	A	Datasheet Release	/	/

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