#### **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
- Adjustable Dimming Curve
- INV Digital Dimming, UART Based Communication Protocol
- Dim-to-Off
- 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 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	Full-Power Current	Default Output	Output Voltage	Max. Output	Typical	Typical Power Factor		Model Number <sup>(3)</sup>
Current Range(A)	Range(A) <sup>(1)</sup>	Current(A)	Range(Vdc)	Power(W)	Efficiency <sup>(2)</sup>	277Vac	480Vac	Model Number
0.4-6.0	4.0-6.0	4.0	175-375	1500	96.0%	0.99	0.96	SSM-1K5S600Mx <sup>(4)</sup>
1-12.5	10-12.5	11.5	84-150	1500	95.5%	0.99	0.96	SSM-1K5S12AMx <sup>(4)</sup>
2.8-31.5	28-31.5	28	34-54	1500	96.0%	0.99	0.96	SSM-1K5S31AMx <sup>(5)</sup>

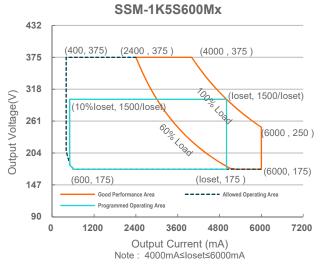
Notes: (1) Output current range with constant power at 1500W.

- (2) Measured at 100% load and 480Vac input (see below "General Specifications" for details).
- (3) Certified input voltage range: 277-480Vac
- (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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#### XXMX Rev.B

#### **I-V Operating Area**



#### SSM-1K5S12AMx 168 (6000, 150) (10000, 150) 148 (10%loset, 1500/lose (loset, 1500/loset) 128 Output Voltage(V) 600 12500 , 120 ) 108 88 (12500, 84) (1250, 84) (loset, 84) 68 ---- Allowed Operating Area Good Performance Area Programmed Operating Area 48 0 7500 10000 12500 15000 2500 5000 Output Current (mA)

Note: 10000mA≤loset≤12500mA

SSM-1K5S31AMx 60 (16800,54) (28000, 54) 54 (10%loset, 1500/loset) (loset, 1500/loset) 48 Output Voltage(V) (31500, 48) 60010 42 36 (31500, 34)(loset, 34) (3150, 34) 30 Good Performance Area ---- Allowed Operating Area **Programmed Operating Area** 24 6300 18900 25200 31500 37800 12600 Output Current (mA)

Note: 28000mA≤loset≤31500mA

#### **Input Specifications**

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

Rev.B

1500W Programmable Driver with INV Digital Dimming

#### **Input Specifications (Continued)**

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

### **Output Specifications**

Parameter	Min.	Тур.	Max.	Notes
Output Current Tolerance	-5%loset	-	5%loset	100% load
Output Current Setting(loset Range)				
SSM-1K5S600Mx SSM-1K5S12AMx	400 mA 1000 mA	-	6000 mA 12500 mA	
SSM-1K5S31AMx	2800 mA	-	31500 mA	
Output Current Setting Range with Constant Power				
SSM-1K5S600Mx	4000 mA	-	6000 mA	
SSM-1K5S12AMx SSM-1K5S31AMx	10000 mA 28000 mA	-	12500 mA 31500 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	60%-100% load
Startup Overshoot Current	-	-	10%lomax	100% load
No Load Output Voltage SSM-1K5S600Mx			420 V	
SSM-1K5S000MX SSM-1K5S12AMX	-	-	170 V	
SSM-1K5S31AMx	-	-	60 V	
Line Regulation	-	-	±0.5%	100% load
Load Regulation	-	-	±3.0%	
Turn-on Delay Time	-	-	0.5 s	Measured at 277-480 Vac 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 1.3ms in a 5.2ms period during which time the average should not exceed 250mA.



Rev.B

#### **General Specifications**

Eff: -i + 077 \ / · · · · ·		Тур.	Max.	Notes
Efficiency at 277 Vac input:				
SSM-1K5S600Mx lo= 4000 mA	93.0%	95.0%	-	Measured at 100% load and steady-state
lo= 6000 mA SSM-1K5S12AMx	93.5%	95.5%	-	temperature in 25°C ambient;
lo= 10000 mA lo= 12500 mA	92.0% 92.0%	94.0% 94.0%	-	(Efficiency will be about 2.0% lower if measured immediately after startup.)
SSM-1K5S31AMx lo= 28000 mA	92.5%	94.5%	-	
Io= 31500 mA Efficiency at 400 Vac input:	92.5%	94.5%	-	
SSM-1K5S600Mx				
lo= 4000 mA	94.0%	96.0%	-	Massured at 100% lead and steady state
lo= 6000 mA SSM-1K5S12AMx	94.0%	96.0%	-	Measured at 100% load and steady-state temperature in 25°C ambient;
lo= 10000 mA	93.0%	95.0%	-	(Efficiency will be about 2.0% lower if
lo= 12500 mA	93.0%	95.0%	-	measured immediately after startup.)
SSM-1K5S31AMx lo= 28000 mA	94.0%	96.0%	_	
lo= 31500 mA	94.0%	96.0%	-	
Efficiency at 480 Vac input: SSM-1K5S600Mx				
lo= 4000 mA	94.0%	96.0%	-	
Io= 6000 mA	94.0%	96.0%	-	Measured at 100% load and steady-state
SSM-1K5S12AMx lo= 10000 mA	93.0%	95.0%		temperature in 25°C ambient; (Efficiency will be about 2.0% lower if
lo= 12500 mA	93.5%	95.5%	-	measured immediately after startup.)
SSM-1K5S31AMx				measured minimalatory arter startup:/
lo= 28000 mA lo= 31500 mA	94.0% 94.0%	96.0% 96.0%	-	
		1.5 W		Magazinad at 490\/aa/E0Llzi Dimming off
Standby Power	-	1.5 VV		Measured at 480Vac/50Hz; Dimming off
MTBF	-	229,000 Hours	-	Measured at 480Vac input, 80%Load and 25°C ambient temperature (MIL-HDBK-217F)
		100,000		Measured at 480Vac input, 80%Load and
Lifetime	-	Hours	-	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				With mounting ear
Inches (L × W × H) Millimeters (L × W × H)		.27 × 3.54 × 1. 164 × 90 × 48.5		19.25 × 3.54 × 1.91 489 × 90 × 48.5
Net Weight	-	4125 g	-	

#### Rev.B

#### **Dimming Specifications**

Р	Parameter		Тур.	Max.	Notes
Absolute Maximum Voltage on the Vdim (+) Pin		-20 V	-	20 V	
Source Curre	ent on Vdim (+)Pin	90 uA	100 uA	110 uA	Vdim(+) = 0 V
Dimming Output Range with	SSM-1K5S600Mx SSM-1K5S12AMx SSM-1K5S31AMx	10%loset	-	loset	4000 mA ≤ loset ≤ 6000 mA 10000 mA ≤ loset ≤ 12500 mA 28000 mA ≤ loset ≤ 31500 mA
10%-100% (Default)	SSM-1K5S600Mx SSM-1K5S12AMx SSM-1K5S31AMx	400 mA 1000 mA 2800 mA	-	loset	400 mA ≤ loset < 4000 mA 1000 mA ≤ loset < 10000 mA 2800 mA ≤ loset < 28000 mA
Dimming Output Range with	SSM-1K5S600Mx SSM-1K5S12AMx SSM-1K5S31AMx	5%loset	-	loset	4000 mA ≤ loset ≤ 6000 mA 10000 mA ≤ loset ≤ 12500 mA 28000 mA ≤ loset ≤ 31500 mA
5%-100% (Settable)	SSM-1K5S600Mx SSM-1K5S12AMx SSM-1K5S31AMx	200 mA 500 mA 1400 mA	-	loset	400 mA ≤ loset < 4000 mA 1000 mA ≤ loset < 10000 mA 2800 mA ≤ loset < 28000 mA
Recommendo Range	Recommended Dimming Input Range		-	10 V	
Dim off Volta	ge	0.35 V	0.5 V	0.65 V	Default 0-10V dimming mode.
Dim on Volta	ge	0.55 V	0.7 V	0.85 V	Belaut 6-107 dimining mode.
Hysteresis		-	0.2 V	-	
PWM_in High	n Level	3 V	-	10 V	
PWM_in Low	Level	-0.3 V	-	0.6 V	
PWM_in Fred	quency Range	200 Hz	-	3 KHz	
PWM_in Duty	y Cycle	1%	-	99%	
PWM Dimmir	PWM Dimming off (Positive Logic)		5%	8%	Dimming mode set to PWM in Inventronics Programing Software.
PWM Dimmir	PWM Dimming on (Positive Logic)		7%	10%	
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
CE	EN 61347-1, EN 61347-2-13
СВ	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

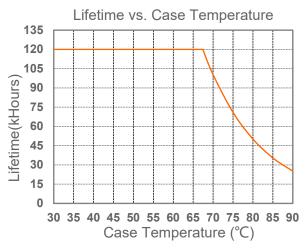
Rev.B

#### Safety &EMC Compliance (Continued)

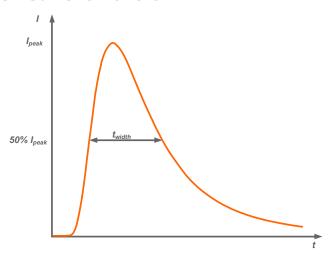
EMI Standards	Notes				
EN IEC 55015/GB/T 17743 <sup>(1)</sup>	Conducted emission Test &Radiated emission Test				
EN IEC 61000-3-2/GB 17625.1	Harmonic current emissions				
EN 61000-3-3	Voltage fluctuations & flicker				
	ANSI C63.4 Class B				
FCC Part 15 <sup>(1)</sup>	This device complies with Part 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**



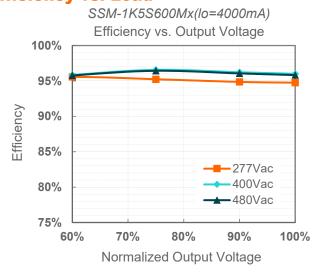
#### **Inrush Current Waveform**

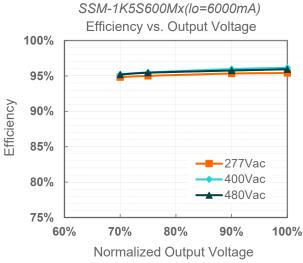


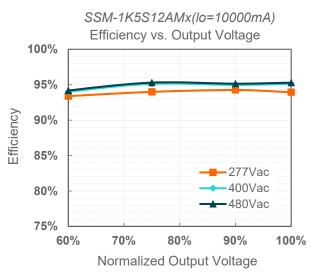
Rev.B

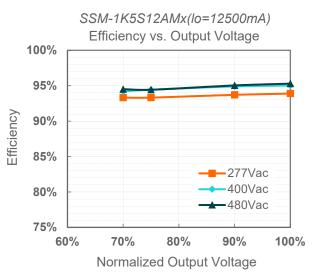
Input AC Voltage	I <sub>peak</sub>	t <sub>width</sub> (@ 50% Ipeak)
480V	16.3A	5.92ms

#### **Efficiency vs. Load**









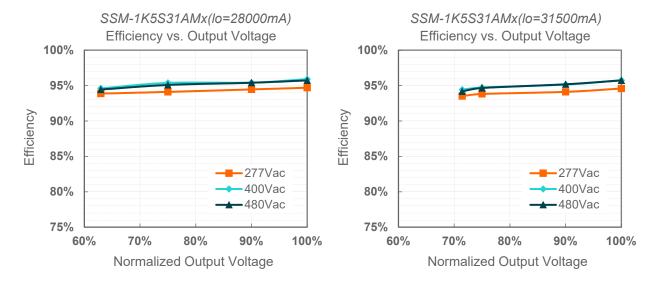
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Specifications are subject to changes without notice.

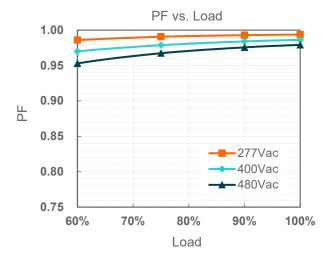
All specifications are typical at 25 °C unless otherwise stated.

Rev.B

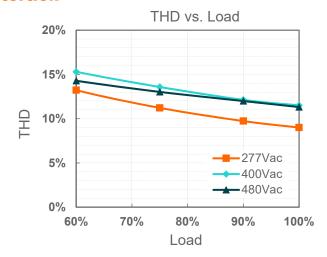
#### 1500W Programmable Driver with INV Digital Dimming



#### **Power Factor**



#### **Total Harmonic Distortion**

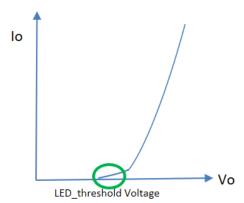


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#### **Hot-plugging Protection**

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.

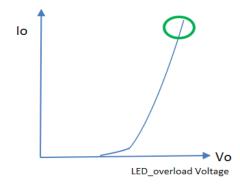
Set Vth close to, but higher than the actual LED threshold voltage for optimized performance. The greater the difference between the Vth setting and the actual LED threshold voltage, the higher the overshoot current will be. The Vth setting must be lower than Vf.

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

Parameter			Min.	Тур.	Max.	Notes
Hot- plugging Protection  LED Threshold Voltage Setting Range	SSM-1K5S600Mx	175V	-	375V		
	Voltage Setting	SSM-1K5S12AMx	84V	-	150V	Set Vth close to, but higher than the actual LED threshold voltage
		SSM-1K5S31AMx	44V	-	54V	Voltage
	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			Тур.	Max.	Notes
	Overload Parallel Voltage Setting LED Range	SSM-1K5S600Mx		-	390V	
Parallel LED		age Setting SSM-1K5S12AMx		-	160V	Set V_overload close to, but higher than the maximum LED forward voltage
Protection	SSM-1K5S31AMx		-	56V	Torward Voltage	
	Setting Tolerance		-2%	-	2%	

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Specifications are subject to changes without notice.

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

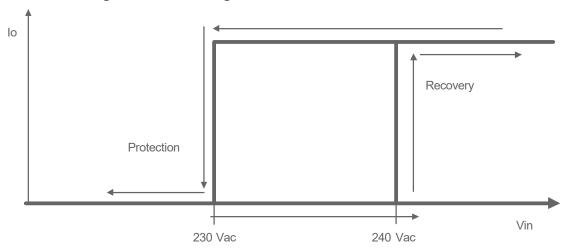


#### Rev.B

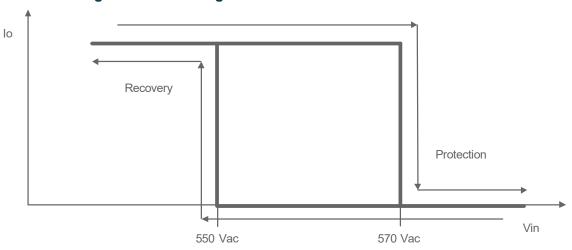
#### **Protection Functions**

Parameter		Min.	Тур.	Max.	Notes		
Over Temperature Protection		Decreases output current, returning to normal after over temperature is removed.					
Short Circuit Pr	rotection		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 P	Protection	Limits outpu	t voltage at no	load and in c	ase 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	Input Over Voltage Protection	550 Vac	570 Vac	590 Vac	Turn off the output when the input voltage exceeds protection voltage.		
Voltage Protection (IOVP)	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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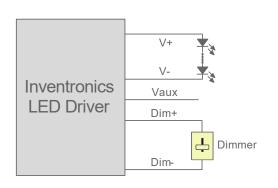
Specifications are subject to changes without notice.

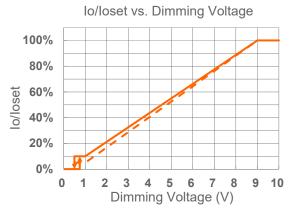
All specifications are typical at 25  $^{\circ}$ C unless otherwise stated.

#### **Dimming**

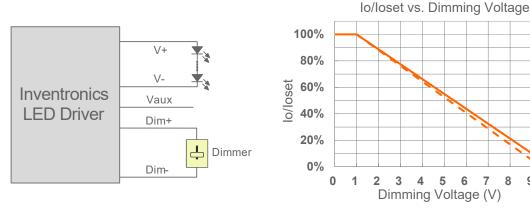
#### 0-10V Dimming

The recommended implementation of the dimming control is provided below.





#### Implementation 1: Positive logic



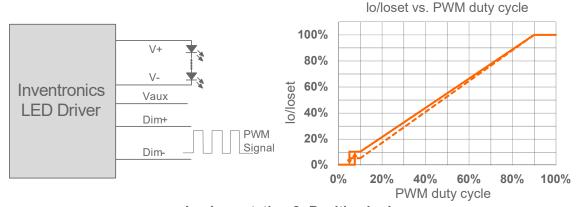
Implementation 2: Negative logic

#### 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.

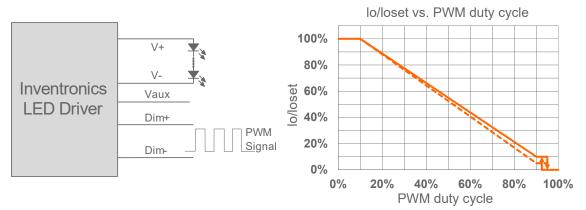


Implementation 3: Positive logic

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

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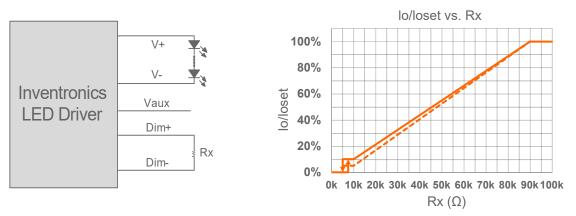
Implementation 4: Negative logic

#### Notes:

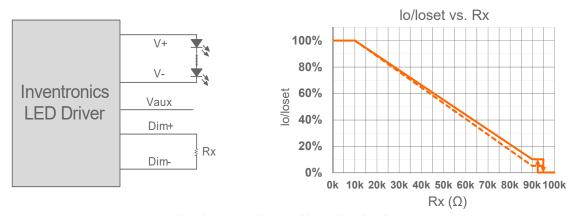
- 1. Do NOT connect Dim- to the output V- or V+, otherwise the driver will not work properly.
- When PWM negative logic dimming mode and Dim+ is open, the driver will dim to off and be standby.

#### Resistor Dimming

The recommended implementation of the dimming control is provided below.



Implementation 5: Positive logic



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.

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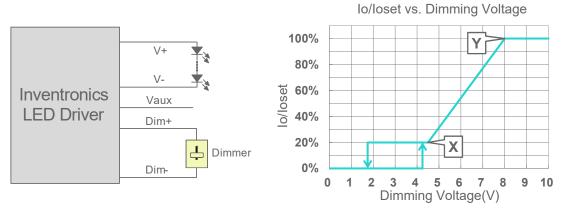
Specifications are subject to changes without notice.

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

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#### **Adjustable Dimming Curve**

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



Implementation 7: Positive logic

#### Notes:

- 1. Do NOT connect Dim- to the output V- or V+, otherwise the driver will not work properly.
- The dimmer can also be replaced by an active 0-10V voltage source signal or passive components like zener.
- 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.
- For best dimming accuracy, the difference between X point and Y point is advised more than 4V.
- 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.

#### **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.

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Specifications are subject to changes without notice.

All specifications are typical at 25 ℃ unless otherwise stated.

Rev.B

#### **End Of Life**

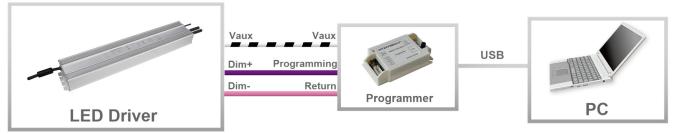
End-of-Life (EOL) is providing a visual notification to a user that the LED module has reached the end of manufacturer-specified life and that the replacement is recommended. Once active, an indication is given at each power-up of the driver, which the driver indicates this through a lower light output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

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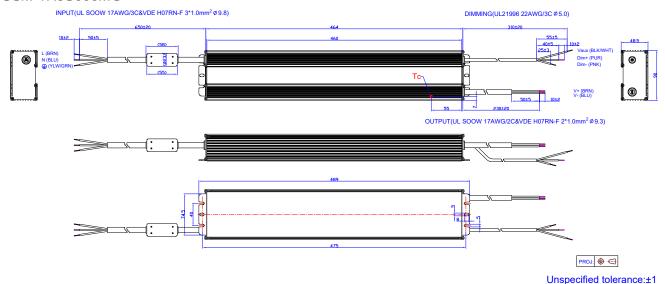


**Note:** The driver does not need to be powered on during the programming process.

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

#### **Mechanical Outline**

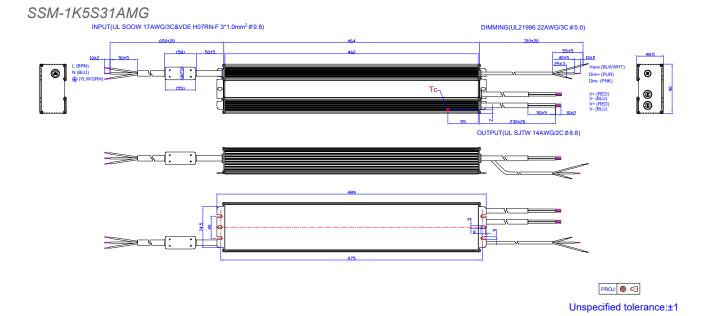
SSM-1K5S600MG



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**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.



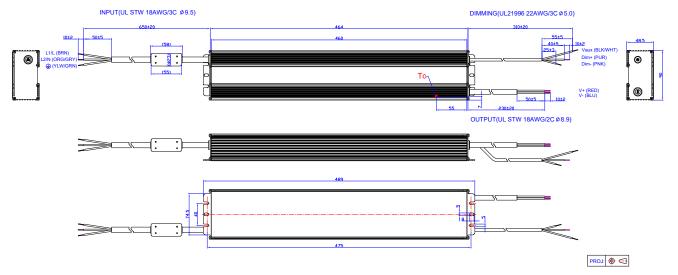
**Note:** The 2 DC output cables are connected in parallel internally because one 14AWG wire can only carry 16A. Please connect the 2 red wires together and 2 blue wires together in application, and ensure each cable carries same current.

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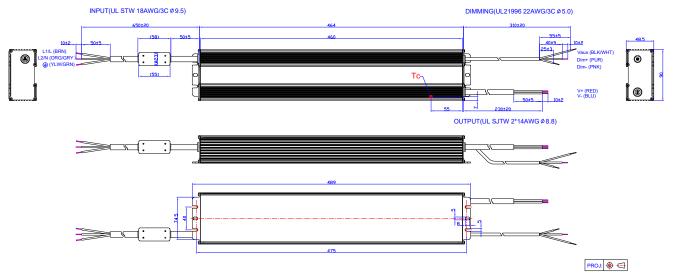
1500W Programmable Driver with INV Digital Dimming

#### SSM-1K5S600MT



#### Unspecified tolerance:±1

#### SSM-1K5S12AMT

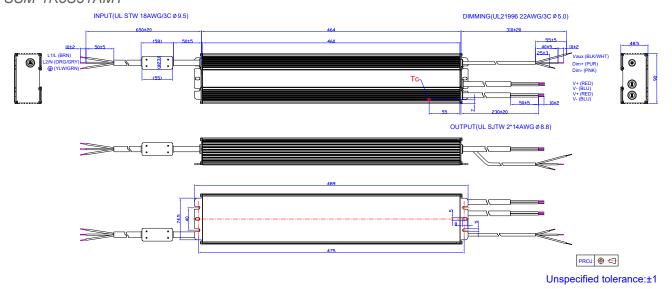


Unspecified tolerance:±1

Rev.B

1500W Programmable Driver with INV Digital Dimming

#### SSM-1K5S31AMT



**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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Rev.B

1500W Programmable Driver with INV Digital Dimming

#### **Revision History**

Change Date	Rev.	Description of Change		
		Item	From	То
2023-07-07	А	Datasheet Release	/	/
2024-01-15	В	Format	/	Updated
		Features	/	Updated
		Inrush Current Waveform	/	Updated
		Dimming	/	Updated