inventronics

LUM-040S150MTG (J) / LUM-040S150MT (F)

Dimmable Constant Current LED Power Supply

Inventronics LUM Power Supply is the reliable choice for linear and compact fixtures for office – shop – retail

Benefits

1% dimming capability with Dim to Off
Programming via Inventronics PC programmer / Tuner4TRONIC
Very low ripple for high lighting quality
12V Aux included
Long lasting and high reliability
UL Class 2



Unit Size	Inch	Millimeter	
Case Length	4.96	126.00	
Case Width	2.37	60.10	
Case Height	0.95	24.00	

MT (F-Style): side entry MTG (J-Style): studs

Applications

Linear and area lighting Office – shop – retail

Approbations & Certifications FCC / cULus / Class P

In preparation, if not already printed on the label

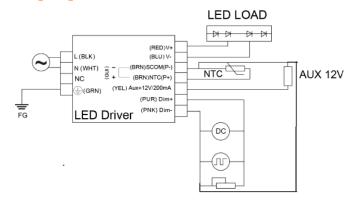
Product Features

- 1% dimming capability incl. Dim to Off
- 0-10V / PWM dimming
- Low THD ≤ 20% @ full load
- Input voltage: 120 277V
- Very wide ambient temperature range

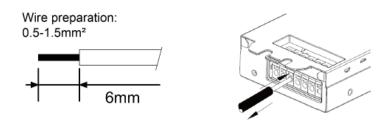
- Programmable drivers
- Low flicker index < 5%
- 12Vaux included
- Long lifetime up to 100k hours
- 5 years warranty

	Item	Value	Unit	Remarks
	Nominal voltage	120 – 277	V	
	Nominal frequency	50 / 60	Hz	Max 47 – 63Hz
	AC voltage range	108 – 305	V	
	Input current AC	0.43/0.19	mΑ	120, 277V
5	Total Harmonic Distortion (THD)	≤ 20	%	120Vac / 277Vac output ≥ 50% load
INPUT	Stand-by power	≤ 1	W	Dim to Off / no AUX
_	Power factor	≥ 0.9		120Vac / 277Vac output ≥ 50% load
	Efficiency	Up to 84	%	Full load without AUX
	Leakage current	300 / 750	μΑ	120Vac/277 Vac / 60Hz Input, Output Full Load
	Inrush current max	7.4 / 17.4 A typ	Α	120Vac / 277Vac Typical / t _{width} = 40 µs typical (max)
	Nominal voltage range	10 - 56	Vdc	59V max
	Maximum voltage	59	Vdc	120V-277Vac / 60Hz Input
5	Nominal current range	300 – 1500	mA	
OUTPUT	Current accuracy	+/- 5	%	at 120-277Vac nominal voltage
9	Flicker index	< 5	%	Full load
	Max. power	40	W	
	Start-Up Time	500	ms	120/277Vac / 60Hz Input, Output Full load
	Dimming technology	0-10V / PWM		Linear & log dimming curve / PWM frequency: 200Hz - 2kHz
O	12V auxiliary output	10.8 / 12.0 / 13.2	V	Min./Typ./Max. – yellow wire
Ě	12V auxiliary current	200	mΑ	
DIMMING	0-10V dimming	0 / 10 / 15	V	Min./Typ./Max. – purple wire
莅	Output source current	200	μΑ	Max. – purple Wire
	Dimming range	1-100%	%	1% dimming capability
	Ambient temperature range t _a	-40+40	°C	
누	Maximum case temperature t _c	90	°C	
Ē	Storage temperature range	-40+85	°C	
Ž	Relative humidity	5 85	%	Not condensing
ENVIRONMENT	Surge transient protection	2 4	kV	L-N; L-FG & N-FG
	Environmental rating	Indoor		
	IP rating	IP 20 50'000		$t_c = 80^{\circ}C$
_	Expected lifetime	100'000	h	$t_c = 80^{\circ}\text{C}$ $t_c = 70^{\circ}\text{C}$
				-

Wiring diagram



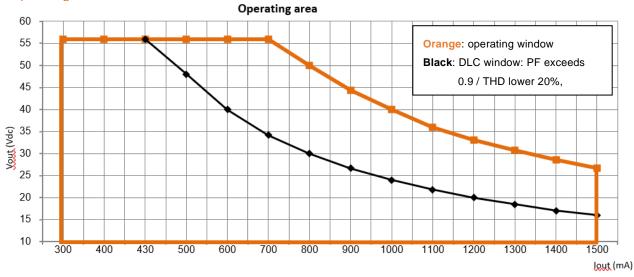
Installation / wiring



Only Solid wire with a cross section of $0.5-1.5\ mm^2$. Strip 6mm of insulation from the cables to ensure perfect operation of terminals

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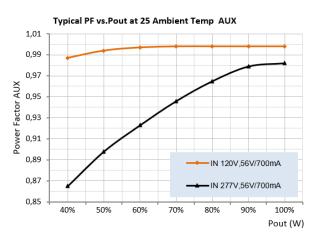
Operating window



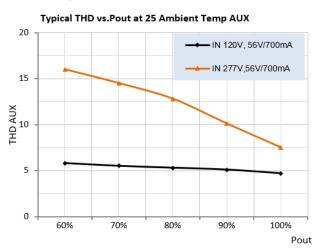
Efficiency vs power

Typical Efficiency vs.Pout at 25 Ambient Temp 90 85 Efficiency % Without AUX 0 0 0 0 0 0 0 0 0 0 0 0 IN 120V, 56V/700mA 55 IN 277V, 56V/700mA 50 90% 100% 30% 40% 50% 60% 70% 80% Pout (W)

PF vs power



THD vs power

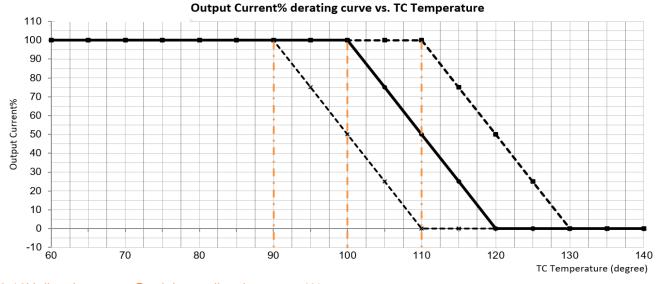


MTG (F-Style): side entry

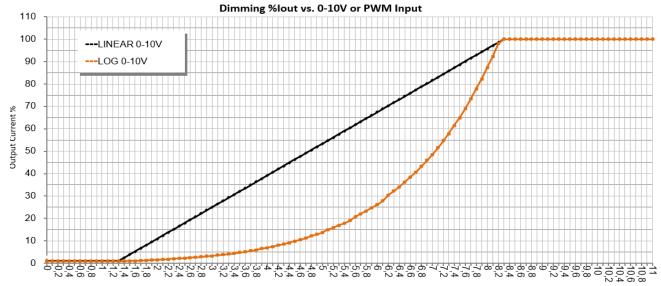




Overtemperature protection behavior

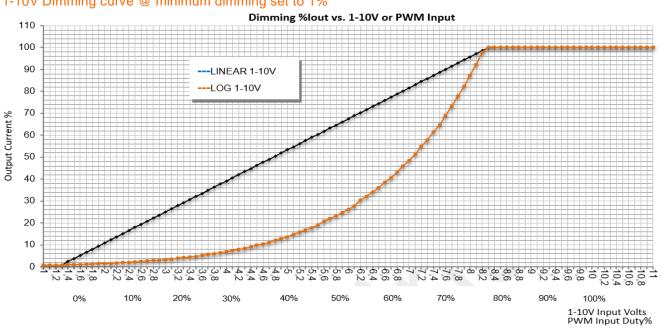


0-10V dimming curve @ minimum dimming set to 1%



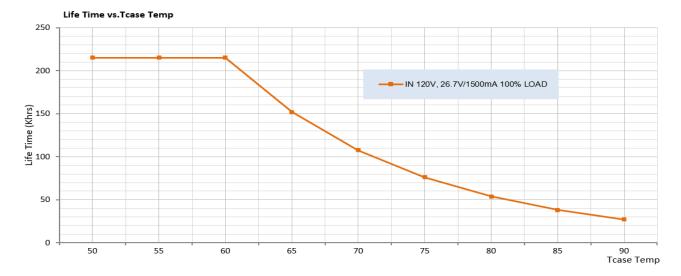
0-10V Input Volts

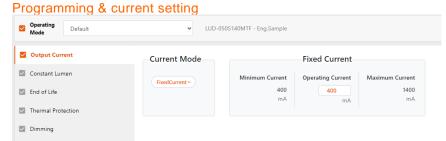
1-10V Dimming curve @ minimum dimming set to 1%



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Lifetime vs TCase





Please use the Inventronics Programmer (Hardware) and Tuner4TRONIC (Software) to program current / features.

For further information please refer to www.tuner4tronic.com

Protections

Output short circuit

Output over current

Over temperature protection

Output over voltage

Programmable features

Output current

NTC

Soft start

Dim to off

End-of-life indicator

Dimming curve

Constant lumen

Safety / EMC compliance

UL / cUL UL8750, CSA-C22.2, Class 2, UL Class P

FCC FCC Part 15 Subpart B, Class A

Ring Wave NEMA SSL1

Ordering information

Product Naming	Ordering Code / EAN (single)	Part Number	Pieces / Package
LUM-040S150MT	6937186100207	9LUM040S150MT-0000	50
LUM-040S150MTG	6937186100221	9LUM040S150MTG0000	50

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