inventronics

LUM-025S130MTG (J) / LUM-025S130MT (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

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



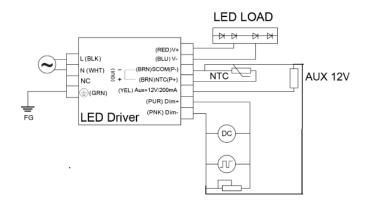
Unit	Inch	Millimeter
Case Length	4.96	126.00
Case Width	2.37	60.10
Case Height	0.95	24.00

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

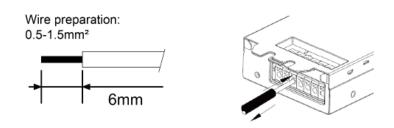
- Programmable drivers
- Low flicker index < 5%
- 12Vaux included
- Long lifetime up to 100k hours
- 5 years warranty

	Remarks	Unit	Value	Item	
		V	120 – 277	Nominal voltage	INPUT
	Max 47 – 63Hz	Hz	50 / 60	Nominal frequency	
		V	108 – 305	AC voltage range	
	120, 277V	mA	0.25/0.13	Input current AC	
	120Vac / 277Vac output ≥ 50% load	%	≤ 20	Total Harmonic Distortion (THD)	
	Dim to Off / no AUX	W	≤ 1	Stand-by power	
	120Vac / 277Vac output ≥ 50% load		≥ 0.9	Power factor	
	Full load without AUX	%	Up to 82	Efficiency	
oad	120Vac/277 Vac / 60Hz Input, Output Full Load	μA	300 / 750	Leakage current	
cal (max)	120Vac / 277Vac Typical / t _{width} = 40 µs typical (max)	А	3.4 / 8.7A typ	Inrush current max	
	59V max	Vdc	10 - 56	Nominal voltage range	ουτρυτ
	120V-277Vac / 60Hz Input	Vdc	59	Maximum voltage	
	· · · · · · · · · · · · · · · · · · ·	mA	100 – 1300	Nominal current range	
	at 120-277Vac nominal voltage	%	+/- 5	Current accuracy	
	Full load	%	< 5	Flicker index	
		W	25	Max. power	
	120/277Vac / 60Hz Input, Output Full load	ms	500	Start-Up Time	
y: 200Hz – 2kHz	Linear & log dimming curve / PWM frequency: 200Hz		0-10V / PWM	Dimming technology	
	Min./Typ./Max. – yellow wire	V	10.8 / 12.0 / 13.2	12V auxiliary output	()
		mA	200	12V auxiliary current	Ň
	Min./Typ./Max. – purple wire	V	0 / 10 / 15	0-10V dimming	DIMMING
	Max. – purple Wire	μA	200	Output source current	ā
	1% dimming capability	%	1-100%	Dimming range	
		°C	-40+55	Ambient temperature range ta	
			90	Maximum case temperature t _c	Ę
					Ē
	5			2	
	L-N; L-FG & N-FG	kV			
				8	
				IP rating	
		h		Expected lifetime	ш
	Not condensing L-N; L-FG & N-FG $t_c = 80^{\circ}C$ $t_c = 70^{\circ}C$	°C °C % kV		Maximum case temperature tc Storage temperature range Relative humidity Surge transient protection Environmental rating IP rating	ENVIRONMENT

Wiring diagram

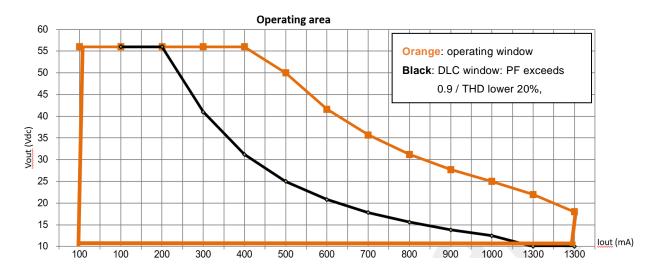


Installation / wiring

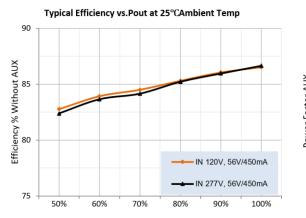


Only Solid wire with a cross section of $0.5 - 1.5 \text{ mm}^2$. Strip 6mm of insulation from the cables to ensure perfect operation of terminals

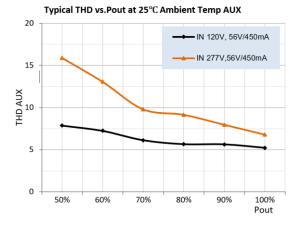
Operating window



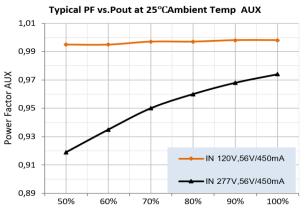
Efficiency vs power



THD vs power



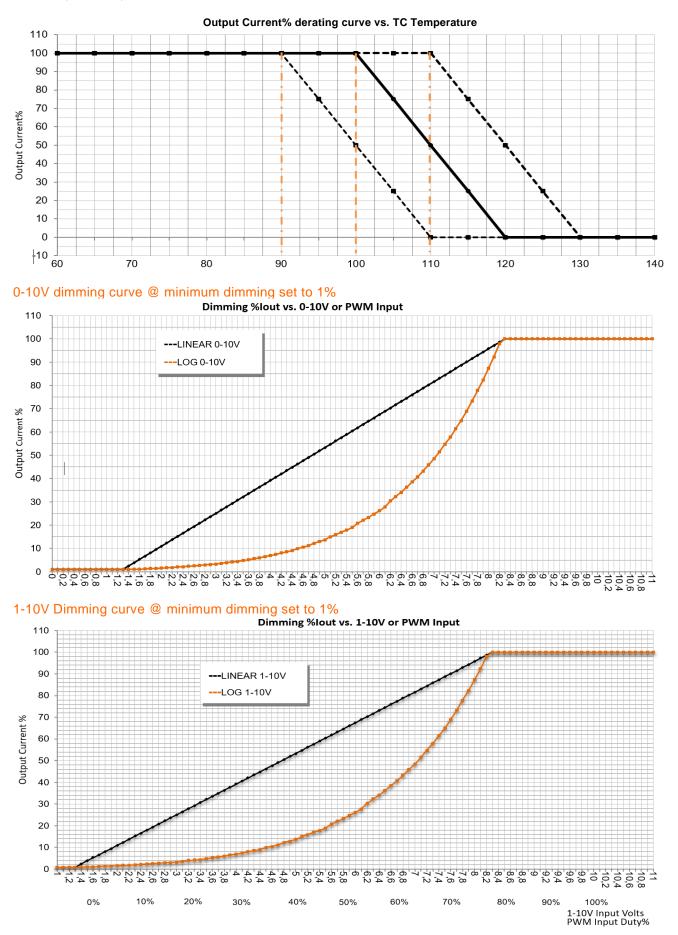
PF vs power



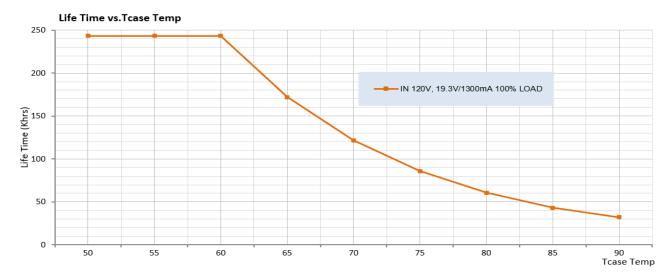
MTG (F-Style): side entry



Overtemperature protection behavior



Lifetime vs TCase



Programming & current setting

Operating Mode Default	✓ LUD-0.	50S140MTF - Eng.Sample		
Output Current	Current Mode		Fixed Current	
Constant Lumen	FixedCurrent -	Minimum Current	Operating Current	Maximum Current
Ind of Life	PixedCurrent*	400 mA	400 mA	1400 mA
Thermal Protection				
Dimming				

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-025S130MTG	6937186100160	9LUM025S130MTG0000	50
LUM-025S130MT	6937186100184	9LUM025S130MT-0000	50

Inventronics 2825 S. Tulsa Avenue Oklahoma City OK 73108 United States www.inventronicsglobal.com

inventronics