

CUP25AT-1WMC(o)

Summary

CUP25AT-1WMC(o) is a constant current mode output LED driver. This driver can be controlled by external signal Phase-Cut ,0-10V to achieve a smooth dimming effect.

Product Feature

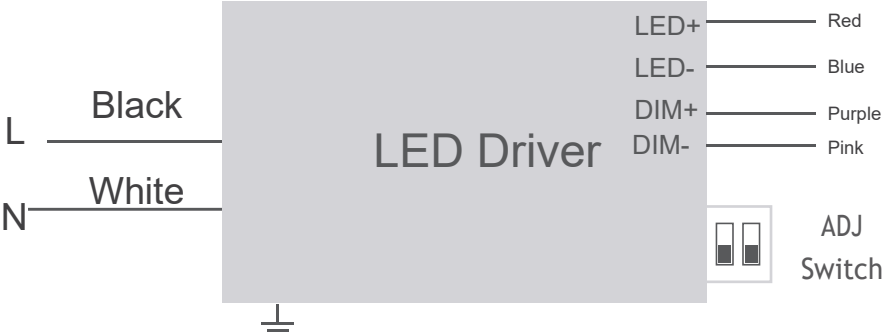
- Comply With UL8750/CSA-22.2 No.250.13 Safety Regulations
- All material to be ROHS compliant to Directive 2011/65/EU and (EU)2015/863
- Class P, Class 2
- 5 Years Warranty (Life expectancy of 50,000h at tc≤75°C)
- Comply With FCC Part15 Class B (@120Vac input Voltage)
- Output Power(Current) Adjustable



Technical Parameters

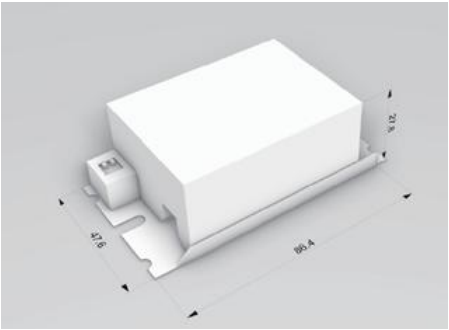
Model	CUP25AT-1WMC(o)	
Input	Efficiency	≥84%@120V , ≥83%@277V
	Voltage	120-277VAC
	Power Factor	>0.95@120V >0.90@277V
	THD(full load)	<20%
	AC Current	0.26A (120VAC) 0.12A (277VAC)
	Inrush Current(max)	Max 30A
Output	Current(mA)	450/500/550/600mA 30-42VDC
Function	Dimming Type	0-10V and Triac (120V 60Hz only) 0-10V Dimming (Dim to OFF)
	Dimming Range	10%-100% @120-277Vac (0-10V Dimming)
	Flicker Percentage	<30% ,comply with CEC Title 20
Safety& EMC	Surge	IEEE C62.41 2.5kV Ring Wave
	Withstand Voltage	I/P-O/P,I/P-FG: (2U+1000Vac)/5mA/1min,O/P-FG: 500Vac/5mA/1min
	Safety Standards	UL 8750-LED equipment for use in lighting product CSA C22.2 No.250.13-LED equipment for lighting applications
Others	Lifetime	50,000h at tc≤75°C
	Material	metal
	Dimension	86.4*47.6*27.8mm(L*W*H)
	Packing(weight)	Net weight: 190g±5%/PCS
	IP Rating	IP20
	Working Temp.	-20°C~40°C
	Storage Temp., Humidity	-40°C~55°C
	Switch Cycle	>25,000 times
	Warranty Condition	5 years

Wiring Diagram

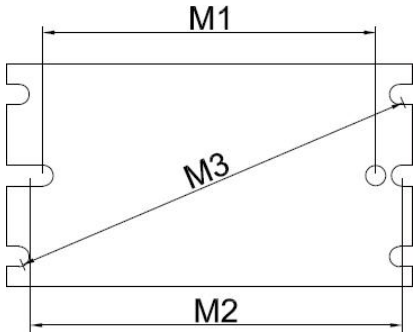


Input: black White: 160mm, 18AWG  
Output: Red Blue: 150mm, 20AWG  
Dimming : Purple Pink: 300mm, 22AWG

Dimension(mm)



Enclosure	Case Total Length	Case Width	Case Height	Weight
(in./mm)	3.4/86.4	1.9/47.6	1.1/27.8	0.40/165

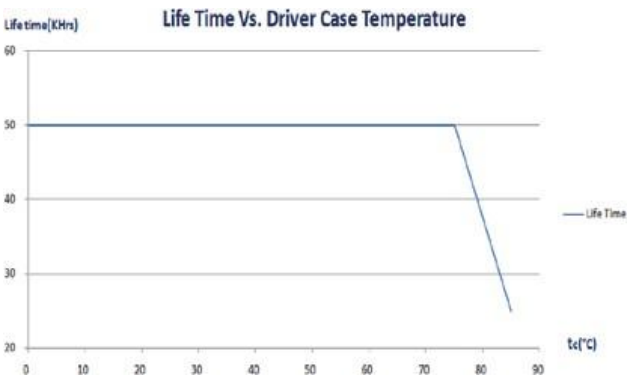
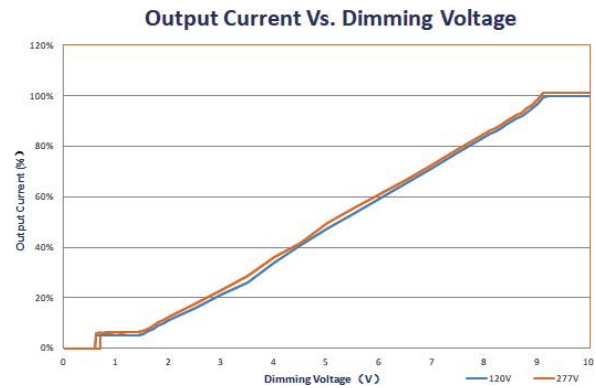


Mounting Length	M1	M2	M3
(in./mm)	2.8/70.9	3.24/82.2	3.5/88.2

0-10V Dimming Curve

Minimum dim level: 10% of Iout  
Maximum output voltage on the dimming wires: 10V

Driver Lifetime Curve



nameplate

104100560101

AC Input

**CUP25AT-1WMC (o)**

- L (Black)
- N (White)

**Constant Current LED DRIVER**

Uin: 120-277Vac 50/60Hz  
Iin: 0.26A Max Pin: 32WMax  
PF: >0.9  
Uout: 30-42Vdc Iout: 0.6A  
Pout: 25W ta: 40°C tc: 75°C  
0-10V Dimming (Dim to OFF)  
Triac Dimming(120Vac/60Hz)

DC Output

- LED+ (Red)
- LED- (Blue)

**Dimming**

- DIM+ (Purple)
- DIM- (Pink)

LISTED  
LED DRIVER  
E499914

ClassP Class2  
Output Type-CC

For Connections Use Wire Rated  
for at Least 90°C (194°C).  
Pour les connexions,  
Utiliser des conducteurs  
D'alimentation convenant 90°C.  
Use only within an enclosure.  
Doit être installé dans  
Une enceinte

Dry and Damp locations.  
Wire control circuits isolated  
**CAUTION:** Case must be grounded  
Disconnect line voltage before  
installing or replacing  
**WARNING:**  
Risk of Fire or Electric Shock  
Do not interconnect output terminations.

Cautions

- 1.This product should be installed by qualified personnel.
2. This product is non waterproof, need to avoid sun and rain.In case of outdoor use, please ensure it is mounted in a water proof enclosure.
- 3.Good heat dissipation conditions extend product life. Please install the product in a well-ventilated environment.
4. Please make sure LED power supply output voltage, current is used to meet the product requirements.
- 5.Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
- 6.In case of malfunction, do not repair it yourself.

User's manual: 2023.06

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