

AWS50A-1UMC-1000

Summary

AWS50A-1UMC-1000 is a LED driver with adjustable output current , can adjust the current through Potentiometer ,support 0-10V active signal /adjust resistance/ PWM signal , can be used as normal driver when signal suspending.

Product Features

- Support 3-in-1 dimming mode(0-10V active signal, adjustable resistance, PWM)
- Wide input voltage of 100VAC ~ 277VAC
- High efficiency up to 89%
- IP Rating: IP 67
- Built-in active PFC function
- 100% output when no dimming signal input, can be used as normal power supply
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load
- Suitable LED lighting application, such as down light,Spotlight,Flood Light, and so on



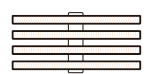
Application



Floorlights



Street Lights

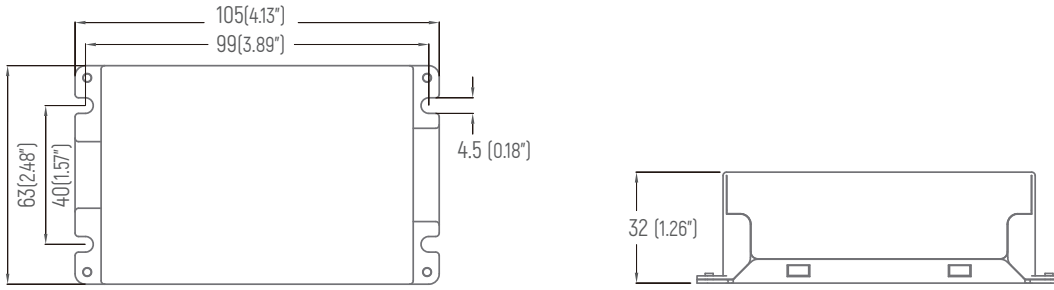


Horticulture Lights

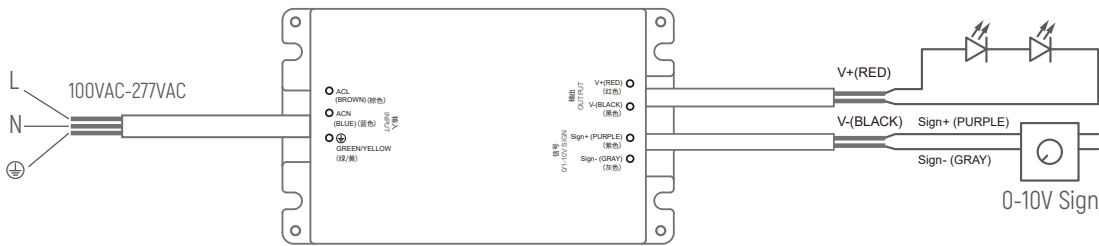
Technical Parameters

Model	AWS50A-1UMC-1000	
Input	Efficiency	89%@230VAC,Full load
	Voltage	100VAC-277VAC
	Frequency Range(Hz)	50/60Hz
	Power Factor	≥0.95@230VAC,Full load
	THD(full load)	<10%@230VAC, Full load
	Standby Power	<0.5W
	AC Current(max)	0.25Amax@230VAC
	Inrush Current(max)	Cold start,40A(twidth=12.8us measured at 50% Ipeak)@230VAC
Output	Current(mA)/Voltage (VDC) Power(W)	500~2100mA (Default :1000mA) /22-54VDC/50W
	Ripple Current	<3%
	Channel	1
	Current Tolerance	±5%
	No load output voltage	60V Max
Function	Dimming Type	0-10V active signal, adjustable resistance, PWM
	Dimming Range	5%-100% Dimming to off
Protection	Short Circuit	after fault removed Close output ,the output current recovers automatically
	Over Load	When the output voltage is exceeded, the output current decreases and, recovers automatically when the load is reduced.
Safety& EMC	Surge	L-N 4kV(Comb wave), L&N-G 6kV(Comb wave)
	Withstand Voltage	I/P-O/P&Signal:3.75kVac, I/P-FG:2.1kVac O/P&Signal-FG:1.5kVac, O/P-Signal:500Vac
	Safety Standards	EN61347-1, EN61347-2-1,UL8750
	EMC Eission	EN50515, EN61000-3-2
	EMC Immunity	EN61000-3-3, EN61000-3-2, EN61547
	Performance	Energy Star
	Other EMC	EN55015 FCC Part 15 Class B
Others	Working Temp.	-40°C~60°C (-40°F~140°F)
	Storage Temp., Humidity	-40°C~85°C (-40°F~185°F) , 20-90%RH
	tc	90°C (194°F)
	Material	Metal
	IP Rating	IP67
	Lifetime	50,000h@tc:80°C (176°F)
	Warranty Condition	5 years
	Switch Cycle	>25,000 times
	Packing(weight)	Net weight: 400g (0.89 lb) ±5%/PCS; 30PCS/Carton; 12.7kg(27.9lb)±5%/Carton; Carton Size:354*238*194mm (13.9*9.37*7.6 Inch)[L*W*H]
	Dimension	105*63*32mm (4.13*2.48*1.25 Inch) [L*W*H]

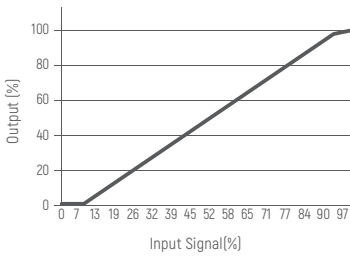
Dimension(mm)



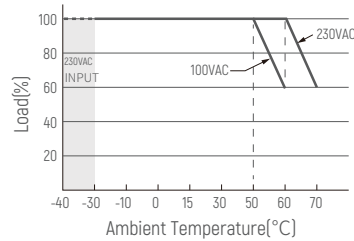
Wiring



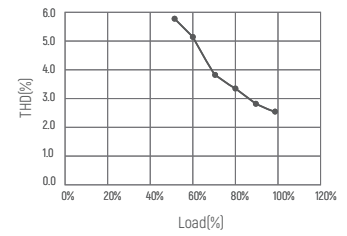
Dimming Curve



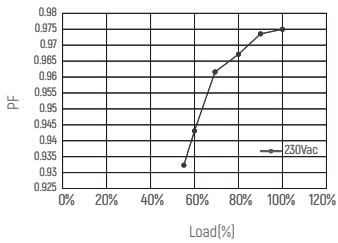
Derating Curve



THD vs Load



Power Factor Characteristic



Cautions

- 1.This product should be installed by qualified personnel.
- 2.Good heat dissipation conditions extend product life. Please install the product in a well-ventilated environment.
- 3.Please make sure LED power supply output voltage, current is used to meet the product requirements.
- 4.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.
- 5.In case of malfunction, do not repair it yourself.

※ The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions, the function of the product shall prevail. Please contact us if you have any questions.