

## MWS320T-1H24V

### Summary

MWS320T-1H24V is a constant voltage mode output LED driver. The driver supports leading edge (Triac) and trailing edge (ELV) dimmer, and can be compatible with the systems of various brands (Philips, Panasonic, Lutron, Simon, ABB, Siemens, Dalitek etc.) to achieve a smooth dimming effect. It can be suitable for indoor and outdoor LED lamps.

### Product Feature

- Single channel constant voltage output, maximum output current is 13.3A
- Built in active PFC, PF > 0.99
- Support for triac and ELV dimming
- Dimming voltage range 40vac - 240VAC
- Smooth dimming curve, flicker free
- 92% efficiency
- Short circuit, Over current protection
- IP65, suitable for indoor and outdoor LED lamps

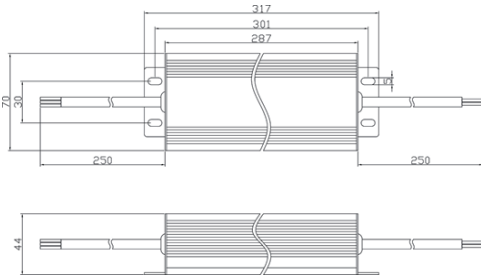


IP65  CE   SELV

### Technical Parameters

Model		MWS320T-1H24V
Output	Voltage	24VDC
	Current	13.3A
	Power	320W
	Current Tolerance	±3%
	Ripple Current	300mVp-p
Input	Voltage	220VAC-240VAC
	Frequency	50/60Hz
	Voltage Range	40-240VAC
	Efficiency	92%@230VAC, Full load
	Power Factor	>0.99@230VAC, Full load
	THD	<5%@230VAC, Full load
	Current	<1.6Amax@230VAC, Full load
Inrush Current	Cold start , 45A (twidh=50us measured at 50% Ipeak) @230VAC	
Protection	Short Circuit	Hiccup, recovers after fault condition is removed
	Over Current	Hiccup, recovers after fault condition is removed
Function	Dimming Type	Triac/ELV
Others	Dimension	317*70*44mm(L*W*H)
	Packing Size	330*90*50mm(L*W*H)
	N.W	1500g
	IP Rating	IP65
	Working Temp.	-20 °C -50 °C
	tc	85 °C
	Humidity	20-90% RH
	Lifetime	50000h@tc:75 °C
Switch Cycle	>100,000 times	

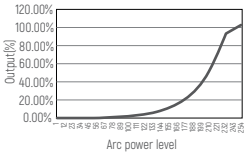
**Dimension(mm)**



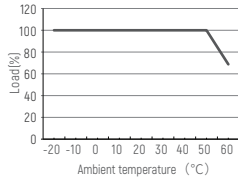
**Wiring Diagram**



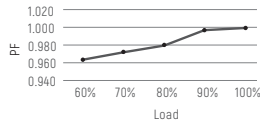
**Dimming Curve**



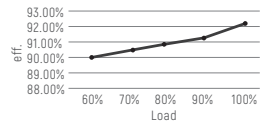
**Derating Curve**



**PF vs Load**



**Eff. vs Load**



**On Load Description Of Circuit Breaker**

Type of circuit breaker	B16	C16
Installation line diameter	1.5mm <sup>2</sup>	1.5mm <sup>2</sup>
Maximum allowed quantity	6	8

**Installation Distance Between Drive And Lamp**

distance	7m/22ft	10m/32ft
Line diameter	1.5mm <sup>2</sup> /AWG15	2.5mm <sup>2</sup> /AWG13

**Caution**

1. This product shall be debugged and installed by personnel with professional qualification.
2. Please read the manual and wiring diagram carefully before installation.
3. Before power on commissioning, ensure that all wiring is correct, so as to avoid lamp damage due to wrong wiring.
4. In case of failure, please do not repair without permission; if in doubt, please contact the supplier.

## MWS320T-1H24V

### 概述

MWS320T-1H24V是一款恒压输出LED调光驱动器。这款驱动器支持前沿切相和后沿切相调光器，可以与多品牌系统（飞利浦，ABB，路创，西门子，西蒙，松下等）配合使用，实现平滑调光的效果。IP65防护等级，电源可以用在室内，也可以用在户外。

### 产品特点

- 单通道恒压输出，最大输出电流为13.3A
- 内置主动式PFC，PF>0.99
- 支持前沿(Triac) 和后沿(ELV)调光
- 调光电压范围 40VAC- 240VAC
- 调光曲线平滑，无抖动
- 高效率达92%
- 过流保护；短路保护
- IP65适用于室内和室外LED灯具

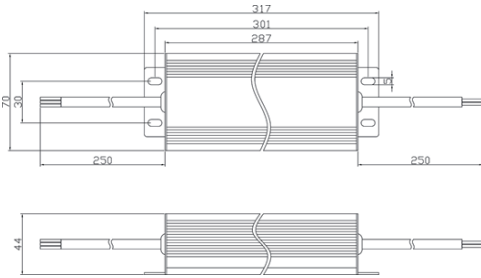


IP65    SELV

### 技术参数

产品型号		MWS320T-1H24V
输出	电压	24VDC
	电流	13.3A
	功率	320W
	电流精度	±3%
	纹波(峰峰值)	300mVp-p
输入	电压	220VAC-240VAC
	频率	50/60Hz
	调光电压范围	40-240VAC
	效率	92%@230VAC, 满载
	功率因数	>0.99@230VAC, 满载
	THD	<5%@230VAC, 满载
	电流	<1.6Amax@230VAC, 满载
浪涌电流	冷启动,45A(50% Ipeak下测试 twidth=50us) @230VAC	
保护	短路	打嗝, 去除故障后自恢复
	过流	打嗝, 去除故障后自恢复
功能	调光方式	前沿/后沿切相
其它	尺寸	317*70*44mm (长*宽*高)
	包装	330*90*50mm (长*宽*高)
	重量	1500g
	防水等级	IP65
	工作环境温度	-20°C -50°C
	tc	85°C
	相对湿度	20-90% RH
	寿命	50000h@tc:75°C
	开关机次数	>100,000 次

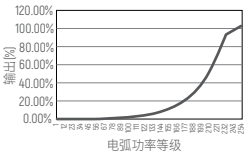
外观尺寸(mm)



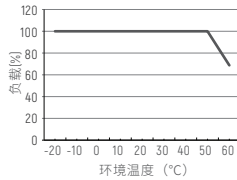
应用连接图



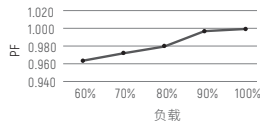
调光曲线



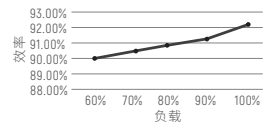
降额曲线



PF vs 负载



效率 vs 负载



断路器的带载说明

断路器类型	B16	C16
安装线径	1.5mm <sup>2</sup>	1.5mm <sup>2</sup>
最大允许数量	6	8

驱动与灯具的安装距离

距离	7m/22ft	10m/32ft
线径	1.5mm <sup>2</sup> /AWG15	2.5mm <sup>2</sup> /AWG13

注意事项

- 1.本产品请由具有专业资格的人员进行调试安装。
- 2.安装之前请仔细阅读说明书和接线图。
- 3.通电调试前，应确保所有接线正确，以避免因接线错误而导致灯具损坏。
- 4.如果发生故障，请勿私自维修；如果有疑问，请联系供应商。