

EUP20M-1HMC (Product No.:101100060201)

Summary

EUP20M-1HMC is a 20W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DMX512(1990). EUP20M-1HMC can be connected to DMX main controller or RDM controller to achieve a smooth dimming effect.



Product Features

- Single channel output, output current level selectable by DIP S.W.
- Meet DMX512(1990)
- Support RDM function
- Wide input voltage of 220VAC ~ 240VAC
- High efficiency up to 86%
- Built-in active PFC function
- Dimming effect smooth, no flicker
- Protections: over load, short circuit
- Suitable for indoor LED lighting application, such as down light, panel light, and so on



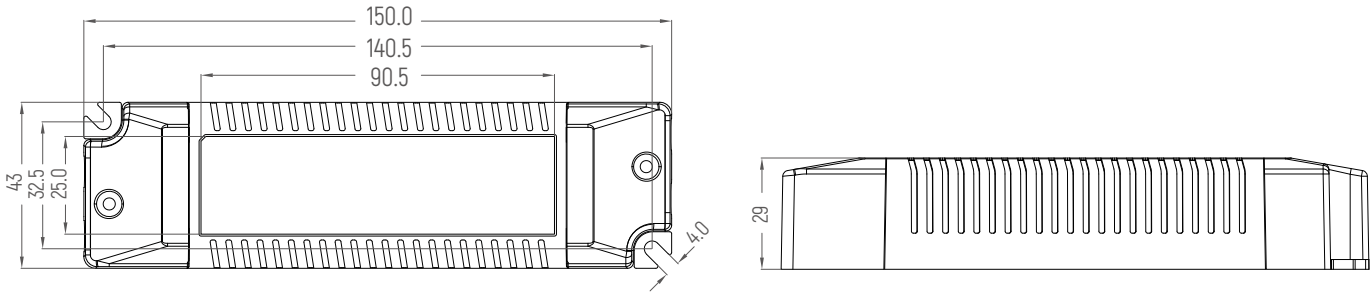
Application



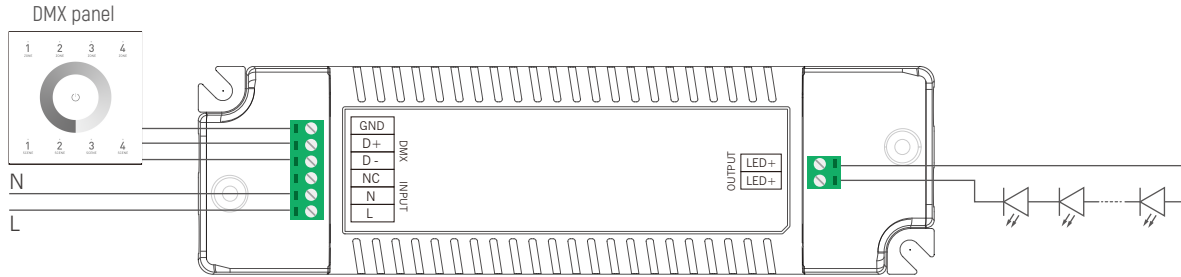
Technical Parameters

Model	EUP20M-1HMC																																									
Input	Efficiency	86%@230VAC,Full load																																								
	Voltage	220VAC-240VAC																																								
	Frequency Range(Hz)	50/60Hz																																								
	Power Factor	≥0.95@230VAC,Full load																																								
	THD(full load)	<10%@230VAC, Full load																																								
	AC Current(max)	0.12Amax@230VAC																																								
	Inrush Current(max)	Cold start,10A@220VAC																																								
Output	Current(mA)/Voltage (VDC) Power(W)	350mA/9-42VDC/14.7W 550mA/9-36VDC/19.8W	400mA/9-42VDC/16.8W 600mA/9-33VDC/19.8W	450mA/9-42VDC/18.9W 650mA/9-30VDC/19.5W	500mA/9-40VDC/20W 700mA/9-28VDC/19.6W																																					
	Ripple Current	<3%	Current Selection Table <table border="1"> <tr> <td>ON</td> <td>OFF</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td></td> <td></td> <td>*350mA</td> <td>400mA</td> <td>450mA</td> <td>500mA</td> <td>550mA</td> <td>600mA</td> <td>650mA</td> <td>700mA</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>9-42V</td> <td>9-42V</td> <td>9-42V</td> <td>9-40V</td> <td>9-36V</td> <td>9-33V</td> <td>9-30V</td> <td>9-28V</td> <td></td> <td></td> </tr> </table> Remark: Function default setting is: 350mA (@switch are all OFF state)				ON	OFF	1	2	3	4	5	6	7	8	9	10			*350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA					9-42V	9-42V	9-42V	9-40V	9-36V	9-33V	9-30V	9-28V		
	ON	OFF					1	2	3	4	5	6	7	8	9	10																										
							*350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA																												
							9-42V	9-42V	9-42V	9-40V	9-36V	9-33V	9-30V	9-28V																												
	Channel	1																																								
	Current Tolerance	±5%																																								
	No load output voltage	60V Max																																								
Turn on delay Time	≤1s																																									
Standby power	max 0.5W																																									
Function	Dimming Type	DMX																																								
	Dimming Range	0%-100%																																								
Protection	Short Circuit	No output - recovers automatically after fault removed																																								
	Over Load	Hiccup, output current Reduced																																								
Safety& EMC	Surge	L-N:1KV																																								
	Withstand Voltage	I/P-O/P: 3750VAC/1min/5mA																																								
Others	Working Temp.	-20°C~50°C																																								
	Storage Temp., Humidity	-40°C~85°C, 20-90%RH																																								
	tc	75°C@220Vac																																								
	Material	PC																																								
	IP Rating	IP20																																								
	Lifetime	50,000h@tc:75°C																																								
	Warranty Condition	5 Years																																								
	Switch Cycle	>25,000 times																																								
	Packing(weight)	Net weight: 110g±5%/PCS; 50PCS/Carton; 6.3kg±5%/Carton; Carton Size: 319*254*136mm(L*W*H)																																								
	Dimension	150*43*29mm (L*W*H)																																								

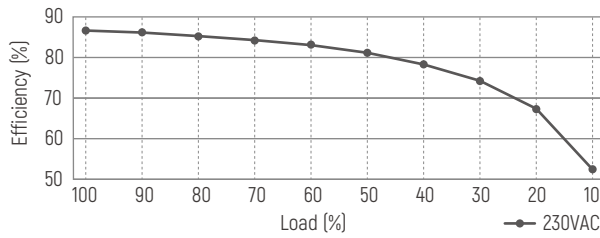
Dimension(mm)



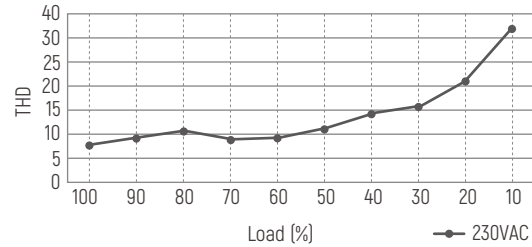
Wiring



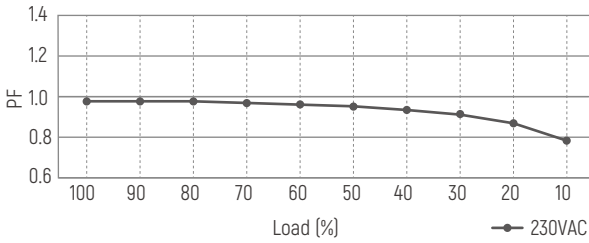
Efficiency vs Load



THD vs Load



Power Factor



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.Due to safety concerns, PVC or rubber cord of 0.75- 1.5mm² is recommended for input and output terminal(s)(excluding signal terminals). Flat power cord is not suitable.Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
- 7.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 .

EUP20M-1HMC (产品代码:101100060201)

概述

EUP20M-1HMC 是一款可以提供 350/400/450/500/550/600/650/700mA 8档电流的 LED 驱动器。输出电流可以通过DIP 拨码开关简易设置，可以通过 DMX 主控或 RDM 主控实现平滑的调光效果。



产品特点

- 单通道恒流输出，多级电流可选
- 遵循标准 DMX512(1990)
- 支持 RDM 写码功能
- 宽电压输入：220VAC ~ 240VAC
- 效率高达 86%
- 内建主动式 PFC 功能
- 过载保护，短路保护
- 适用于 LED 室内灯具,比如筒灯，面板灯等



应用



技术参数

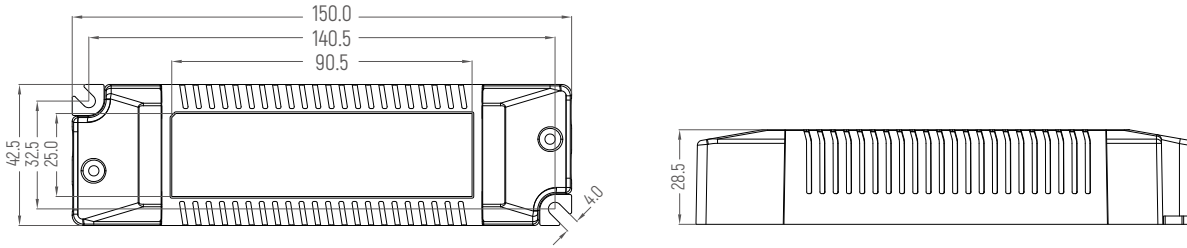
型号	EUP20M-1HMC					
输入	效率	86%@230VAC, 满载				
	电压	220VAC-240VAC				
	频率	50/60Hz				
	功率因素	≥0.95@230VAC, 满载				
	THD	<10%@230VAC, 满载				
	电流	0.12Amax@230VAC				
	浪涌电流	冷启动,10A(在 50%Ipeak下测twidth=14us)@220VAC				
输出	电流/电压/功率	350mA/9-42VDC/14.7W 550mA/9-36VDC/19.8W	400mA/9-42VDC/16.8W 600mA/9-33VDC/19.8W	450mA/9-42VDC/18.9W 650mA/9-30VDC/19.5W	500mA/9-40VDC/20W 700mA/9-28VDC/19.6W	
	波纹电流	<3%				
	通道	1				
	电流精度	±5%				
	空载输出电压	60V Max				
	启动延时	<1s				
	待机功耗	max 0.5W				
功能 保护	调光方式	DMX				
	调光范围	0%-100%				
	短路	无输出和移除后自恢复				
	过载	降低输出电流，打嗝				
安全&电磁兼容	浪涌	L-N:1KV				
	耐压标准	I/P-O/P: 3750VAC/1min/5mA				
其它	工作温度	-20°C~50°C				
	储存温度、湿度	-40°C~85°C, 20-90%RH				
	tc	75°C@220Vac				
	材质	PC				
	防水等级	IP20				
	寿命	50,000小时@tc:75°C				
	质保	5年				
	开关周期	>25,000次				
	包装尺寸(重量)	净重: 110g±5%/PCS; 50PCS/Carton; 6.3kg±5%/箱; 外箱尺寸: 319*254*136cm(长*宽*高)				
尺寸	150*43*29mm (长*宽*高)					

电流选择表

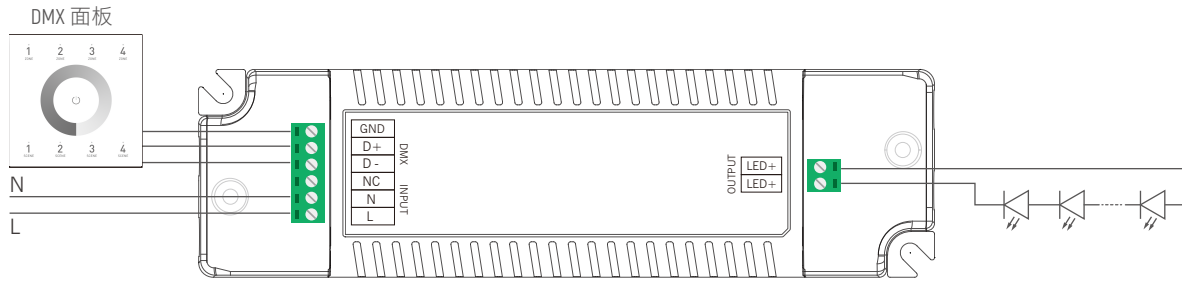
ON	OFF	1	2	3										
		350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA					
		9-42V	9-42V	9-42V	9-40V	9-36V	9-33V	9-30V	9-28V					

备注：出厂默认设置电流为350mA(1,2,3在OFF状态)

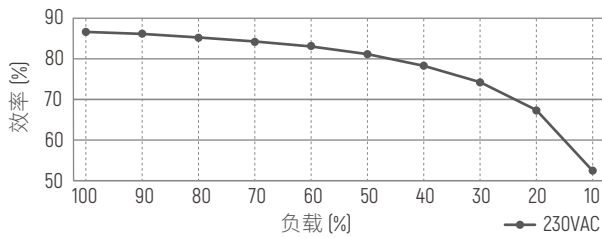
尺寸(mm)



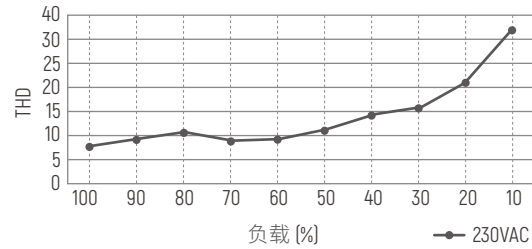
接线图



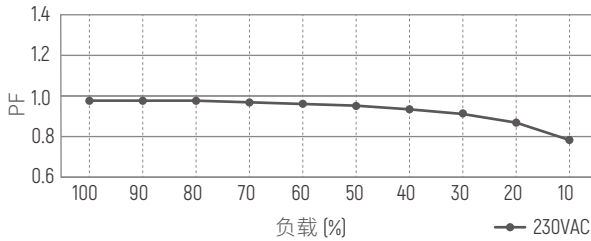
效率与负载曲线



THD与负载曲线



功率因数与负载曲线



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、本产品不能防水，需避免日晒雨淋，如安装在户外，请用防水箱。
- 3、良好的散热条件会延长产品的使用寿命，请把产品安装在通风良好的环境。
- 4、请检查使用的LED电源输出电压电流，是否符合产品要求。
- 5、出于安全考虑，推荐输入和输出（信号端除外）用0.75-1.5mm² PVC或橡胶线缆，并确保接线牢固，以免电线过热或接触不良触发事故。扁平电源线不适用。
- 6、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。
- 7、如果发生故障，请勿私自维修；如有疑问，请联系供应商。

※ 本说明书内容如有更新，恕不另行通知。若您使用的产品功能与说明书不一致时，请以产品为准。如有疑问请与我们联系。