

PUP20T-1HMC (104100160101)

Summary

PUP20T-1HMC is a constant current output mode LED driver.The output current can be easily set via DIP switch.The driver supports leading edge (Triac) and trailing edge (ELV) dimmer, achieve a smooth dimming effect.

Product Features

- Single channel output, output current level selectable by DIP S.W.
- Support Leading edge (Triac) and Trailing edge (ELV) dimmer
- Input Voltage 220-240VAC
- Built-in active PFC function
- Class 2 power supply. Full protective plastic housing
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load, over voltage
- Suitable for indoor LED lighting application, such as down light, spotlights, panel light, and so on



Application

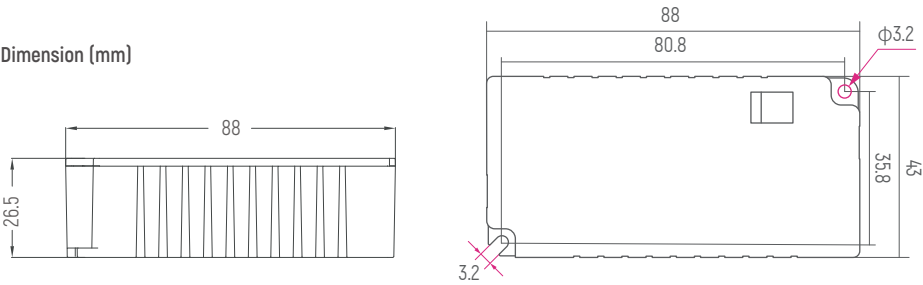


Technical Parameters

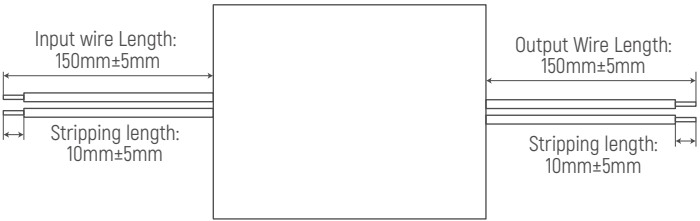
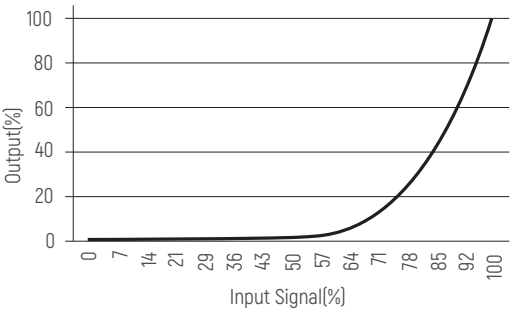
Model		PUP20T-1HMC				
Input	Efficiency	79%@230VAC, Full load				
	Frequency	50/60Hz				
	Voltage	220-240VAC				
	PF	0.92@230VAC, Full load				
	Current	0.2Amax@230VAC				
	THD[Full load]	<20%@100VAC				
	Inrush Current	Cold start,10A@230VAC				
	Standby Power	<3W				
Output	Current/Voltage/Power	350mA/9-45V/15.7W 400mA/9-45V/18W	450mA/9-44V/19.8W 500mA/9-40V/20W	550mA/9-36V/19.8W 600mA/9-33V/19.8W	650mA/9-30.7V/20W 700mA/9-28.5V/20W	
	Channel	1				
	No load output voltage	60V Max				
	Frequency	2KHz PWM				
	Current Accuracy	±5%				
	LF current ripple(<120 Hz)	<3%				
Protection	Over Voltage	Hiccup, recovers after fault condition is removed				
	Over load	Hiccup, recovers after fault condition is removed				
	Short circuit	Close output, recovers automatically after fault removed				
Safety & EMC	Surge	L-N:0.5kV;				
	Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA				
	Safety standards	EN61347-2-13				
	EMI Eission	EN55015				
	EMC Immunity	EN61000-3-3 EN61000-4-3 EN61000-4-4 EN61000-4-5				
Function	Dimming type	TRIAC				
	Dimming range	3%-100%				
Others	Dimension	88*43*26.5mm(L*W*H)				
	Pack Information	Net weight: 105g±5%/PCS; 50PCS/Carton; 5.75kg±5%/Carton; Carton Size: 234x222x194mm(L*W*H)				
	IP rating	IP20				
	Working temp.	-20°C~50°C				
	tc	90°C				
	Relative humidity	20~90% RH				
	Lifetime	50,000h@tc:70°C				
	Material	PC				
	Switch cycle	>25,000 tims				

Remark: Use only within an enclosure

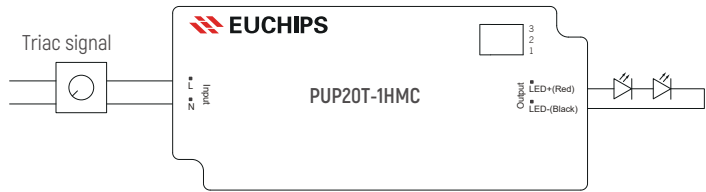
Dimension (mm)



Dimming Curve



Wiring Diagram



Current Selection Table

PUP20T-1HMC is a multi-current dimming driver, output current level selectable by DIP S.W., as the following:

ON	OFF	1	2	3	4	5	6	7	8	9	10
		350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA		
		9-45V	9-45V	9-44V	9-40V	9-36V	9-33V	9-30V	9-28.5V		

Remark: Function default setting is: 350mA(@switch are all OFF state)

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 0.75-2.5mm² 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 .

PUP20T-1HMC (104100160101)

概述

PUP20T-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，这款驱动器支持前沿切相和后沿切相调光器，调光曲线平滑。

产品特点

- 单通道恒流输出，多级电流可选
- 支持前沿/后沿切相调光
- 输入电压：220-240VAC
- Class 2电源, 全防护塑胶外壳
- 调光曲线平滑，无闪烁
- 短路保护，过载保护，过压保护

技术参数

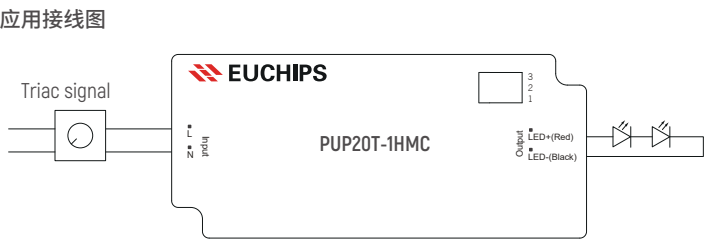
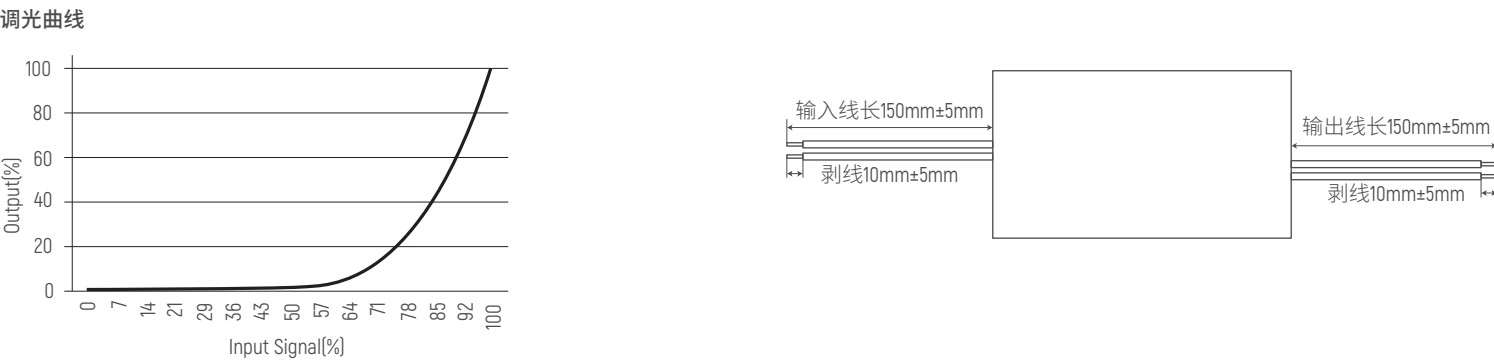
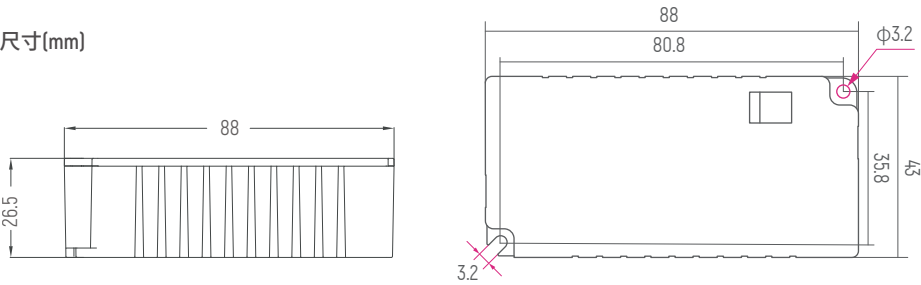
产品型号		PUP20T-1HMC			
输入	效率(典型)	79%@230VAC, 满载			
	频率	50/60Hz			
	电压	220-240VAC			
	功率因数(典型)	0.92@230VAC, 满载			
	电流	0.2Amax@230VAC			
	THD(满载)	<20%@100VAC			
	浪涌电流	Cold start,10A@230VAC			
	待机功耗	<3W			
输出	电流/电压/功率	350mA/9-45V/15.7W 400mA/9-45V/18W	450mA/9-44V/19.8W 500mA/9-40V/20W	550mA/9-36V/19.8W 600mA/9-33V/19.8W	650mA/9-30.7V/20W 700mA/9-28.5V/20W
	通道	1			
	空载输出电压	60V Max			
	输出频率	2KHz PWM			
	电流精度	±5%			
	低频纹波电流(<120 Hz)	<3%			
保护	过压保护	打嗝，移除故障后自恢复			
	过载保护	打嗝，移除故障后自恢复			
	短路保护	关断输出，移除故障后自恢复			
安全与电磁兼容	浪涌	L-N:0.5kV;			
	耐受电压	I/P-O/P: 3000VAC/1min/5mA			
	安全标准	EN61347-2-13			
	电磁兼容	EN55015			
	EMC电磁抗扰度	EN61000-3-3 EN61000-4-3 EN61000-4-4 EN61000-4-5			
功能	调光模式	TRIAC			
	调光范围	3%-100%			
其它	产品尺寸	88.2*43.2*26.5毫米（长*宽*高）			
	包装信息	净重: 105g±5%/个; 50个/箱; 5.75kg±5%/箱; 外箱尺寸: 234x222x194mm(长*宽*高)			
	防水等级	IP20			
	工作环境温度	-20°C~+50°C			
	tc	90°C			
	相对湿度	20~90% RH			
	寿命	50,000h@tc:70°C			
	材料	PC			
	开关机次数	>25,000次			

备注: 仅在外壳内使用



应用





电流选择表

PUP20T-1HMC是一个多电流调光驱动器，输出电流可通过DIP S.W.选择，如下所示：

ON	OFF	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA												
		9-45V	9-45V	9-44V	9-40V	9-36V	9-33V	9-30V	9-28.5V												

备注：出厂默认设置电流为350mA [1,2,3在OFF状态]

- 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，推荐输入和输出用0.75-1.5mm²PVC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；如果有疑问，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。