

DPE40-1HMC (107100730101)

Summary

DPE40-1HMC is a half voltage range input, isolated flyback constant current drive power supply developed for LED lamp. This power supply adopts new circuit design, which makes the product have high reliability, low noise, energy saving and environmental protection, long life and so on.

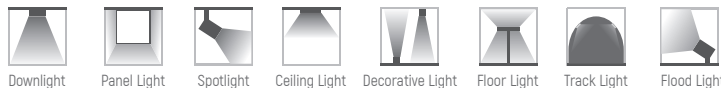


Product Features

- High efficiency up to 88%
- High reliability
- Flicker free
- low noise and long life
- energy conservation and environmental protection
- Support Protection: Over Voltage, Over Load, Over temperature, Short circuit
- Suitable for indoor lamps



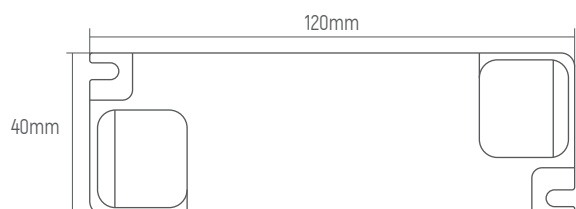
Application

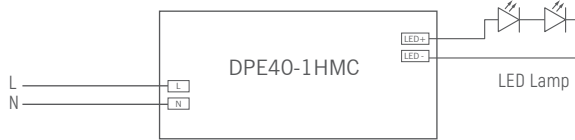


Technical Parameters

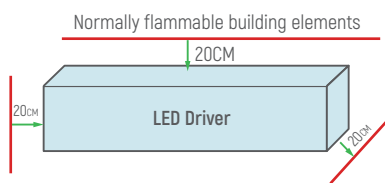
Model	DPE40-1HMC				
Input	Efficiency(Full load)	>88%@230VAC			
	Voltage	220VAC-240VAC			
	Frequency Range(Hz)	50/60Hz			
	Power Factor(Full load)	>0.9@230VAC			
	THD(full load)	<15%@230VAC, Full load			
	AC Current(max)	0.3Amax@230VAC			
	Standby power	<1W			
	Inrush Current(max)	Cold start, <20A@230VAC			
Output	Current/Voltage/Power	850mA/27-40VDC/34W	900mA/27-40VDC/36W	950mA/27-40VDC/38W	1000mA/27-40VDC/40W
	Ripple Current	<10%			
	Channel	1			
	Current Tolerance	±5%			
	No load output voltage	60VDC			
Protection	Short circuit	The product of anode and short sub, this product will start short circuit protection function, and not because this abnormality in product permanent damage.			
	Over Load	The output shall hiccup when the Power over the rated power, and shall be self-recovery when the fault condition is removed.			
	Over Voltage	The output shall hiccup when the over voltages applied to the output rail, and shall be self-recovery when the fault condition is removed.			
Safety & EMC	Surge	Line To Line;1KVac/60 Second*5 times			
	Withstand Voltage	Primary to Secondary: 3750Vac 10mAmax / 60second(1second for production)			
	Safety Standards	--			
	EMC Eission	EN55015:2006+A1 2007; EN61000-3-2:2000,CLASS A; EN61000-3-3:1995+A1:2001;			
EMC Immunity	EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-5; EN 61000-4-8; EN 61000-4-11; EN 61000-6-1; EN 61000-6-3;				
Others	Working Temp.	-20°C~45°C, 10-90%RH			
	Storage Temp., Humidity	-40°C~70°C, 5-95%RH			
	tc	85°C			
	Material	PC			
	IP Rating	IP20			
	Lifetime	50,000h@ta:25°C;			
	Warranty Condition	3 years			
	Switch Cycle	>20,000 times			
	Packing(mm L*W*H)	N.W: --g±5%/PCS; 150PCS/Cartron; --kg±5%/Cartron;Cartron Size: L435*W260*H240mm			
Dimension	120*40*25mm(L*W*H)				

Dimension(mm)



Wiring Diagram**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.



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概述

DPE40-1HMC是一款半电压范围输入, 隔离反激式恒流驱动电源,采用全新的电路设计,使产品具有高可靠性、低噪音、节能环保、经济型等特点。

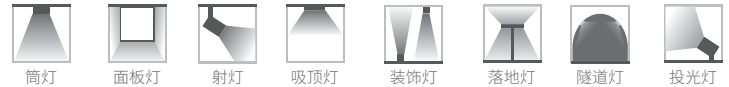


产品特点

- 效率高达88%
- 高可靠性
- 低噪音长寿命
- 节能环保
- 支持过压保护、过载保护、过温保护、短路保护
- 适用于室内灯具



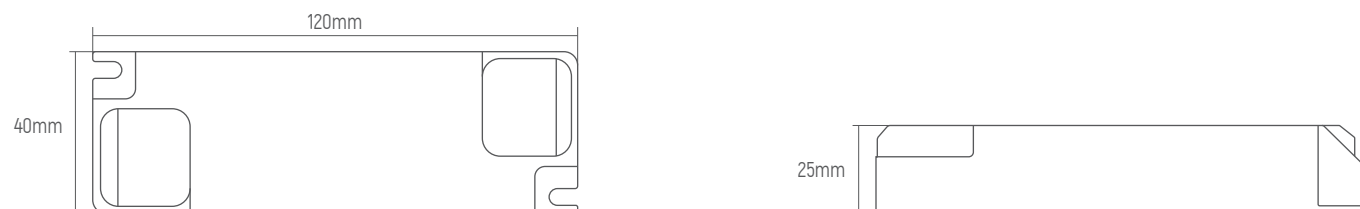
应用



技术参数

型号	DPE40-1HMC				
输入	效率(满载)	>88%@230VAC			
	电压	220VAC-240VAC			
	频率(Hz)	50/60Hz			
	功率因数(满载)	>0.9@230VAC			
	THD(满载)	<15%@230VAC			
	电流(最大)	0.3Amax@230VAC			
	待机功耗	<1W			
	浪涌电流(最大)	冷启动, <20A@230VAC			
输出	电流/电压/功率	850mA/27-40VDC/34W	900mA/27-40VDC/36W	950mA/27-40VDC/38W	1000mA/27-40VDC/40W
	纹波电流	<10%			
	通道	1			
	电流精度	±5%			
	空载输出电压	60VDC			
功能	短路	输出端出现异常, 造成产品正负极短接, 电源会启动短路保护功能, 当异常解除电源可恢复正常			
	过载	灯的VF值在产品的设计电压范围内时, 此产品输出电流会恒定不变; 当灯的VF值超过设计的电压范围时, 产品会进入过载保护状态。			
	过压	当输出电压超过额定输出电压值时, 电源进行自我保护, 当电压恢复正常时, 电源可恢复正常工作			
安规和电磁兼容	浪涌	Line To Line;1kVac/60 Second*5次			
	耐受电压	初级(LN)对外壳(地): 3750Vac/10mAMax/60秒(生产时高压测试时间: 1秒)			
	安全标准	--			
	电磁兼容	EN55015:2006+A1 2007; EN61000-3-2:2000,CLASS A; EN61000-3-3:1995+A1:2001;			
EMC电磁抗扰度	EN 61000-3-2; EN 61000-3-3; EN 61000-4-2; EN 61000-4-3; EN 61000-4-5; EN 61000-4-8; EN 61000-4-11; EN 61000-6-1; EN 61000-6-3;				
其它	工作温度	-20°C-45°C			
	储存温度,湿度	-40°C-70°C, 20-90%RH			
	tc	85°C			
	材质	PC			
	防水等级	IP20			
	寿命	50,000小时@ta:25°C;			
	质保期	3年			
	开关次数	>20,000 times			
	箱装规格(长*宽*高)	N.W: --g±5%/PCS; 150PCS/Carton; --kg±5%/Carton;Carton Size: L435*W260*H240mm			
	产品尺寸	120*40*25mm[L*W*H]			

尺寸(mm)



应用接线图



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0.75-1.5mm²PVC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；如有疑问，请联系供应商。

