

	产品类型	东菱 LED 室外驱动电源 DONE LED INTEGRATED SPECIAL DRIVER		
	产品系列	DL-50W-MP 系列	受控文件 REV	2.2

中山市东菱照明科技有限公司

客户承认书

ACKNOWLEDGMENT FOR CUSTOMER

CUSTOMER/客户名:	
MODEL NO./产品型号:	DL-50W-MP
Rev./版本号	V2.2
SAMPLE DATE/送样日期:	

客户确认栏

TESTED BY 检查	CHECKED BY 审核	APPROVED BY 批准
客户备注		

Please return to us one copy of "SPECIFICATION FOR APPROVAL" with you approved signature./客户确认签章后请回传一份承认书给我公司.

东菱确认栏

MADE BY 制作	CHECKED BY 审核	APPROVED BY 批准
梁家伟	张明生 3/16	2010.3.16

Zhongshan Done Lighting Technology Co., Ltd.
中山市东菱照明科技有限公司

No.3-1&3-2, Kanglong 3rd Road,Henglan Town, Zhongshan, Guangdong 528478 P.R. China

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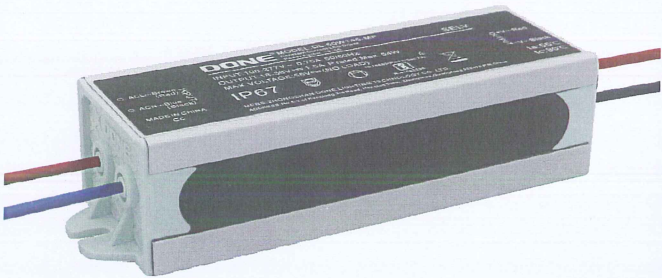
■ 变更履历表

NO	REV (版本号)	CONTENT OF CHANGE (修订内容)	CAUSES OF CHANGE (修订原因)	DATE (日期)	REVISED PERSON (修订人)	REMARKS (备注)
1	V1.0	初次发行	初次发行	2017/10/20	周道	
2	V1.1	在 2/10 页面增加老化 要求项: 低压输入未灌 胶时不老化, 请用 230Vac 老化。	根据产品特性对老化要 求进行标准化	2017/12/24	周道	V1.0 作废
3	V1.2	在 3/10 页面调整 DL-50W600-MP 输出特 性中的过电压项为 96~107V	根据生产反馈的带载问 题对产品参数进行调整	2018/1/16	周道	V1.1 作废
4	V1.3	在 3/10 页面调整规范 所有产品输出特性中 的过电压要求	统一规范所有产品的输 出过电压要求	2018/6/5	周道	V1.2 作废
5	V2.0	在 3/11、6/11 页面调 整雷击浪涌等级为 6KV	升级雷击浪涌级别, 同步 更新规格书	2018/10/9	梁家伟	V1.3 作废
6	V2.1	调整产品类型: 改为室 外驱动电源; 修改 THD 为 10%	性能调整	2019/01/08	梁家伟	V2.0 作废
7	V2.2	更新产品图片、更新产 品机械尺寸图、调整空 载电压参数、调整标签	常规更新以及性能调整	2019/3/15	梁家伟	V2.1 作废
8						

DONE®东菱电源	产品类型	东菱 LED 室外驱动电源 DONE LED INTEGRATED SPECIAL DRIVER		
	产品系列	DL-50W-MP 系列	REV	2.2

FEATURES 产品特点

- ◇ Class I Driver
Class I 结构驱动
- ◇ Input voltage:100-277V~50/60Hz
输入电压:100-277V~50/60Hz
- ◇ Eff.>89% @230Vac Full load
输入电压为 230Vac，输出满负载，效率可达 89%
- ◇ Lightning Surge Differential Mode+/- 6KV (2 ohm) .
Class II (line to neutral) (IEC61000-4-5 2014)
雷击浪涌等级为差模 L-N Class II +/- 6KV ((2 ohm)
参照 IEC61000-4-5 2014



注：请灌胶后再测试雷击浪涌。

- ◇ Double 85 test pass (15 days) @230Vac Full load
可通过双 85 测试 (15 天) @230Vac 满载
- ◇ The LED DRIVER shall be applied 1500Vac for 60 seconds (HI – POT)
该 LED 驱动 I/P-O/P&I/P-PE 耐压可达 1500Vac 持续 60S
- ◇ Long life design warranty for 3years
超长寿命设计，质保 3 年
- ◇ Applied in: Street lamp, project-light lamp, wash wall lamp or other outdoor lamps and lanterns
应用于：路灯、投光灯、洗墙灯等户外照明灯具

MODEL LIST 型号列表

型号 (Model NO.)	Input Voltage 输入电压	Output Voltage 输出电压	Output Current 输出电流	效率 Efficiency		THD	PF
				115Vac	230Vac	230Vac	230Vac
DL-50W300-MP	100-277V~ 50/60Hz	65-130V	300mA	87%	89%	12%	0.95
DL-50W600-MP		43-86V	600mA	87%	89%	12%	0.95
DL-50W900-MP		24-48v	900mA	87%	89%	12%	0.95
DL-50W1A05-MP		24-48V	1050mA	87%	89%	12%	0.95
DL-50W1A15-MP		24-48V	1150mA	87%	89%	12%	0.95
DL-50W1A2-MP		18-36V	1200mA	87%	89%	12%	0.95
DL-50W1A35-MP		18-36V	1350mA	87%	89%	12%	0.95
DL-50W1A5-MP		18-36V	1500mA	87%	89%	12%	0.95

[illegible]

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◇Protection 保护

OVER CURRENT 过载	95 ~ 105% Protection type : Constant current limiting, recovers automatically after fault condition is removed 保护模式:恒电流限制模式, 负载异常条件移除后可自动恢复
SHORT CIRCUIT 短路	Hiccup mode, recovers automatically after fault condition is removed 打嗝模式,异常条件移除后可自动恢复
OVER VOLTAGE 过电压	Protection type : hiccup or when it is at the highest point of output voltage the product would not be hurt when the fault is excluded or is start working again the power supply is working normally 保护模式:打嗝或钳在某输出最高电压状态,产品不受损伤,当故障排除或重新起机时,电源工作正常

NOTE :

- 1) All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
如未特别说明,所有规格参数均在 230Vac (50Hz) 输入, 额定负载, 环境温度 25°C 的条件下进行测量
- 2) Tolerance : includes set up tolerance, line regulation and load regulation.
包含设定误差、线性调整率和负载调整率。
- 3) Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications.
恒流模式在额定输出电压 50%~100%情况下运行, 适用行 LED 等相关产业

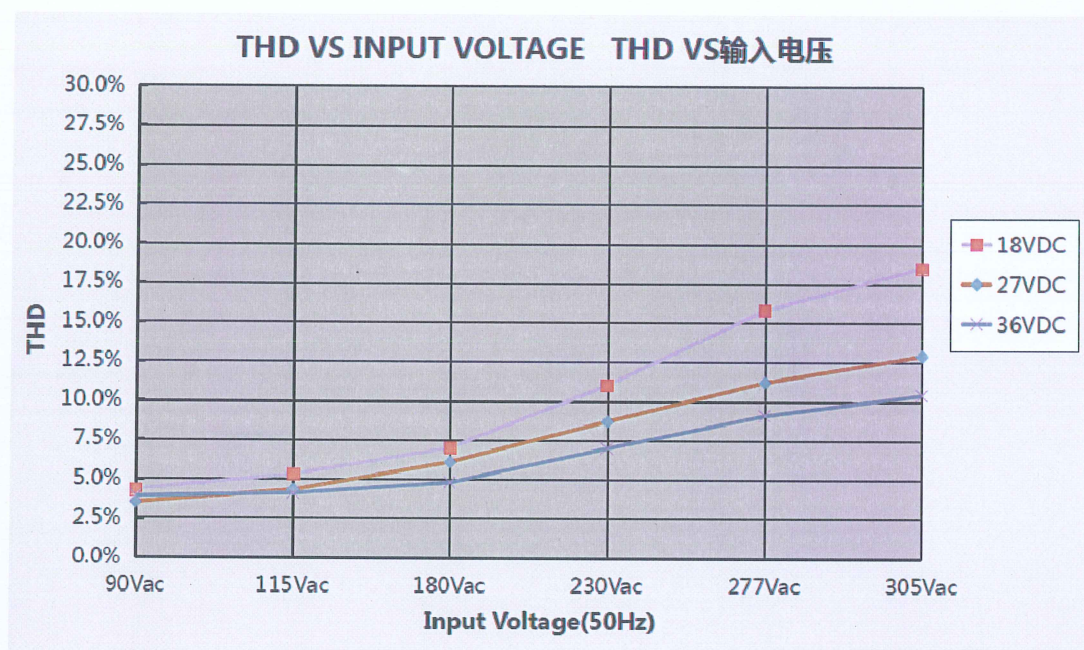
■ ENVIRONMENT 环境

WORKING TEMP. 工作温度	-40 ~ +55°C(Refer to "Derating Curve") -40 ~ +55°C (参考 减额曲线)
WORKING HUMIDITY 工作湿度	20 ~ 95% RH non-condensing 20 ~ 95% RH,无冷凝
STORAGE TEMP, HUMIDITY 储存温度、湿度	-40 ~ +85°C, 10 ~ 95% RH
VIBRATION 耐振动	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes 10 ~ 500Hz, 5G 12 分钟/周期, X、Y、Z 轴各 72 分钟
WITHSTAND VOLTAGE 耐压	I/P-O/P:1.5KVAC
ISOLATION RESISTANCE 绝缘阻抗	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH
MTBF	100K hrs min. MIL-HDBK-217F (25°C)

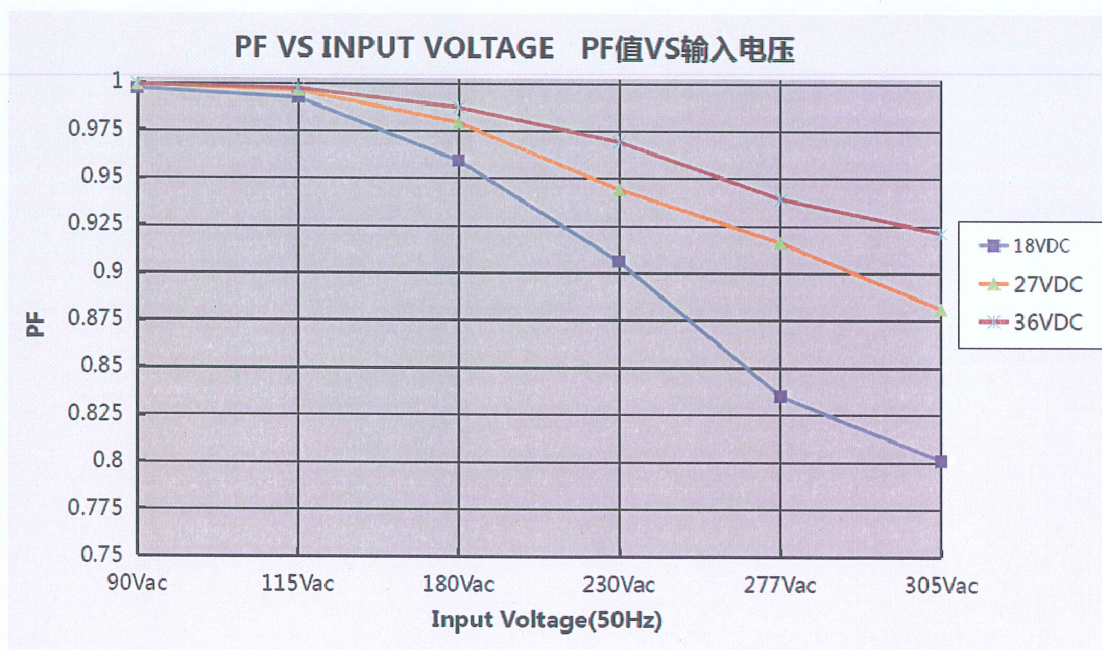
■ SAFETY & EMC 安全与电磁兼容

Safety 安全	/
EMC 电磁兼容	/
LIGHTNING SUGER 雷击浪涌	Differential Mode+/- 6KV (2 ohm) . Class II (line to neutral) (IEC61000-4-5 2014) 雷击浪涌等级为差模 L-N Class II +/- 6KV (2 ohm) (IEC61000-4-5 2014)
LEAKAGE CURRENT 漏电流	<0.7mA / 230Vac

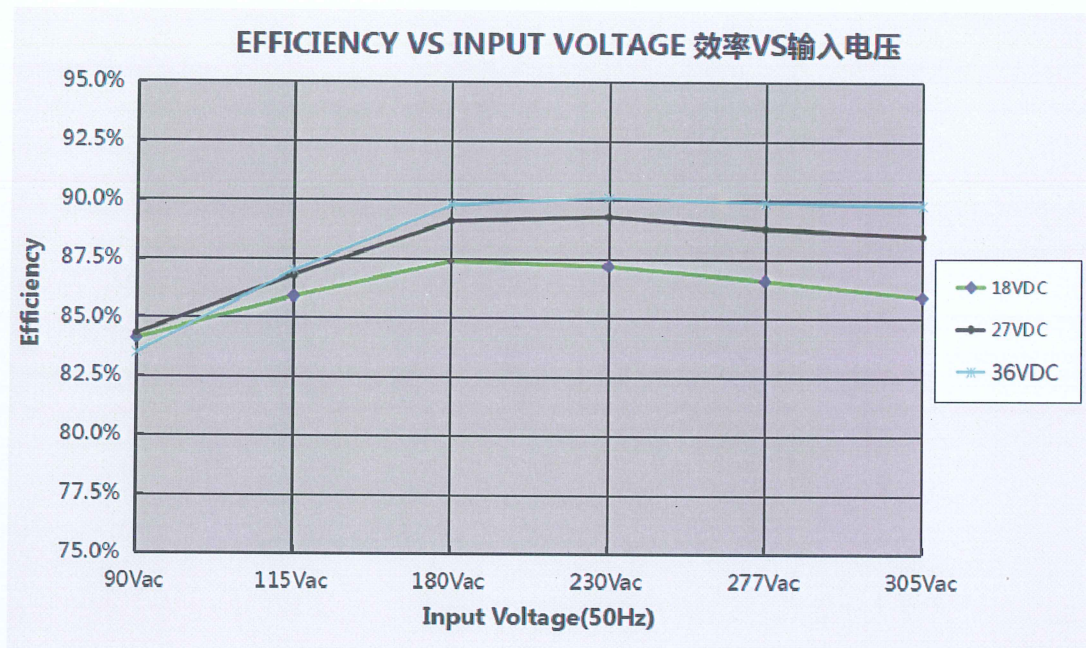
THD VS INPUT VOLTAGE THD VS 输入电压 (DL-50W1A5-MP)



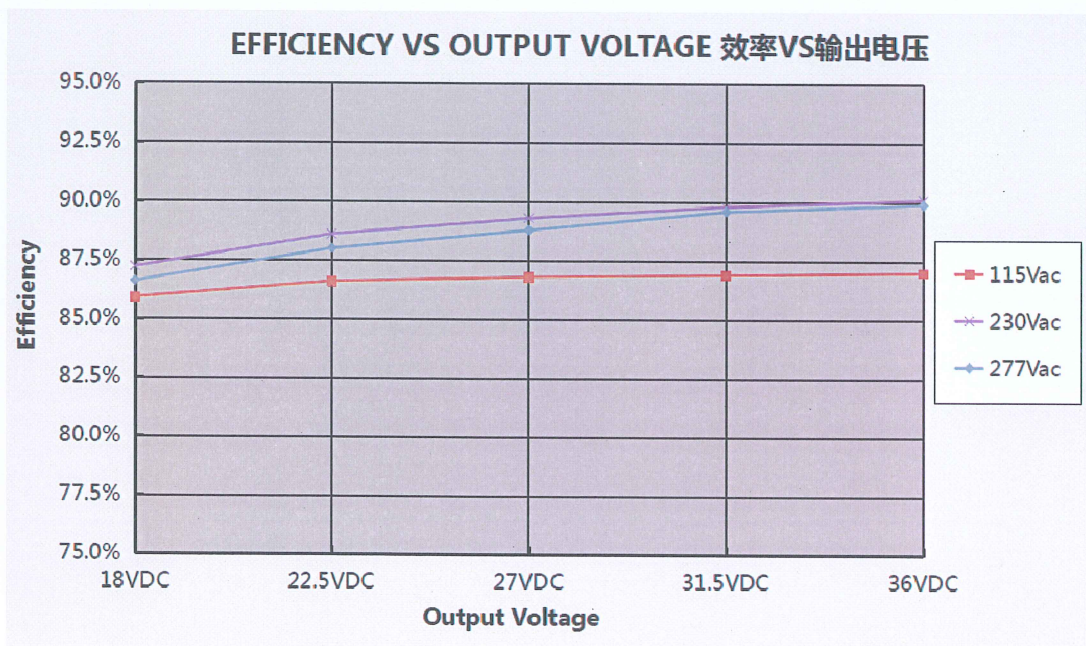
PF VS INPUT VOLTAGE PF 值 VS 输入电压 (DL-50W1A5-MP)



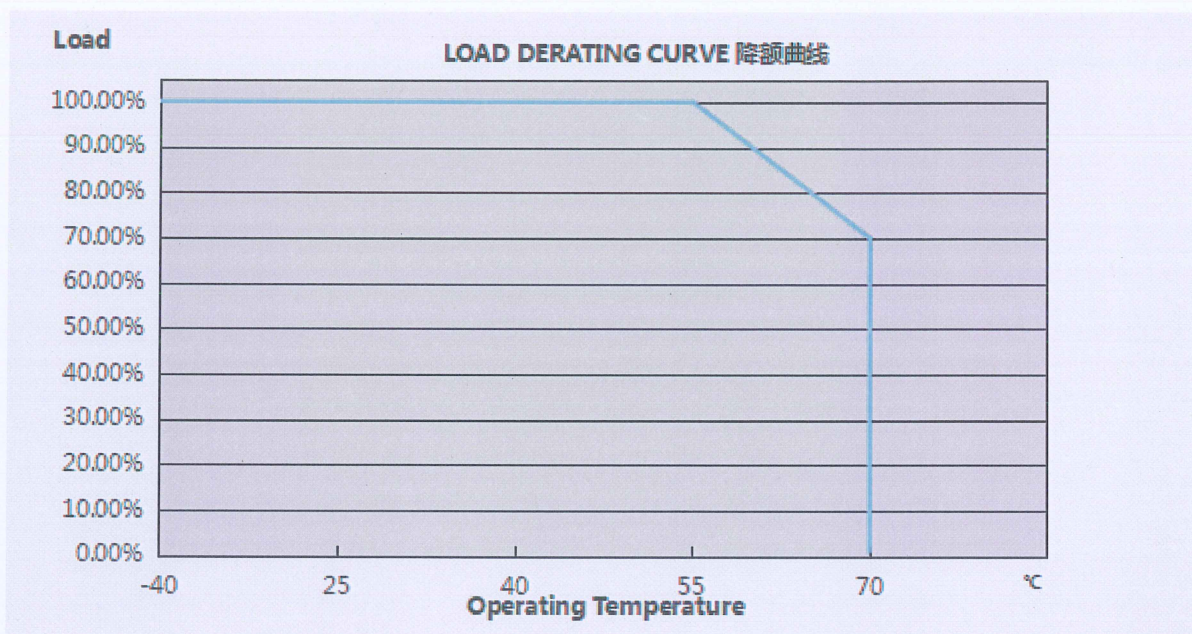
■ EFFICIENCY VS INPUT VOLTAGE 效率 VS 输入电压 (DL-50W1A5-MP)



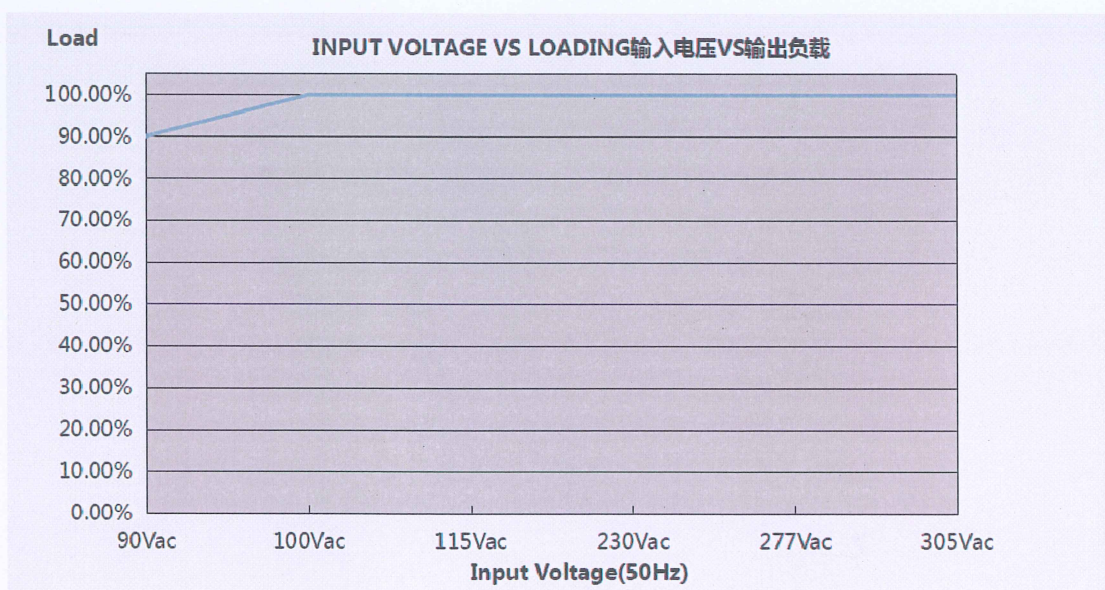
■ EFFICIENCY VS OUTPUT VOLTAGE 效率 VS 输出电压 (DL-50W1A5-MP)



LOAD DERATING CURVE 降额曲线 (DL-50W1A5-MP)



INPUT VOLTAGE VS LOADING 输入电压 VS 输出负载 (DL-50W1A5-MP)

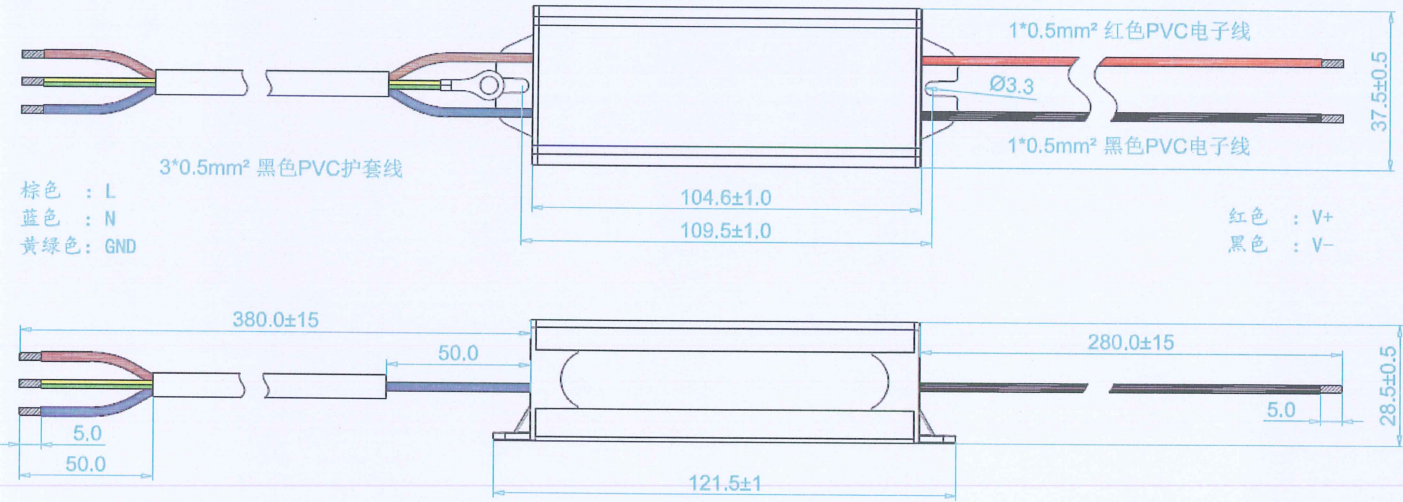


DONE东菱电源	产品类型	东菱 LED 室外驱动电源 DONE LED INTEGRATED SPECIAL DRIVER		
	产品系列	DL-50W-MP 系列	REV	2.2

MECHANICAL SPECIFICATION & PACKING 机械尺寸图 & 包装:

DIMENSION 尺寸 (mm)	121.5*37.5*28.5
PACKING 包装	/

Case No.机壳型号 : 2M06A Unit 单位:mm



MONOMER WEIGHT 单体重量

MONOMER WEIGHT 单体重量	175g
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■ LABELLING 标签

DL-50W300-MP

DONE[®] MODEL:DL-50W300-MP
Constant Current LED Driver
Power Factor ≥ 0.95

INPUT:100-277V ~ 0.75A 50/60Hz
OUTPUT:65-130V $\equiv$ 0.3A P rated:Max. 39W
MAX.VOLTAGE:155V $\equiv$ (NO LOAD)

IP67

MADE IN CHINA
Cc

MFRS:ZHONGSHAN DONE LIGHTING TECHNOLOGY CO.,LTD.
ADDRESS:No.3-2 of Kanglong 3rd Road, Henglan Town, Zhongshan, Guangdong 528478 P.R.China

IS 15885(Part 2/Sec 13)
R-41082295

ta:55°C
tc:90°C

DL-50W600-MP

DONE[®] MODEL:DL-50W600-MP
Constant Current LED Driver
Power Factor ≥ 0.95

INPUT:100-277V ~ 0.75A 50/60Hz
OUTPUT:43-86V $\equiv$ 0.6A P rated:Max. 51.6W
MAX.VOLTAGE:110V $\equiv$ (NO LOAD)

IP67

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IS 15885(Part 2/Sec 13)
R-41082295

ta:55°C
tc:90°C

DL-50W900-MP

DONE[®] MODEL:DL-50W900-MP
Constant Current LED Driver
Power Factor ≥ 0.95

SELV

INPUT:100-277V ~ 0.75A 50/60Hz
OUTPUT:24-48V $\equiv$ 0.9A P rated:Max. 43.2W
MAX.VOLTAGE:68V $\equiv$ (NO LOAD)

IP67

MADE IN CHINA
Cc

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ADDRESS:No.3-2 of Kanglong 3rd Road, Henglan Town, Zhongshan, Guangdong 528478 P.R.China

IS 15885(Part 2/Sec 13)
R-41082295

ta:55°C
tc:90°C

DL-50W1A05-MP

DONE[®] MODEL:DL-50W1A05-MP
Constant Current LED Driver
Power Factor ≥ 0.95

INPUT:100-277V ~ 0.75A 50/60Hz
OUTPUT:24-48V $\equiv$ 1.05A P rated:Max. 50.4W
MAX.VOLTAGE:68V $\equiv$ (NO LOAD)

IP67

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IS 15885(Part 2/Sec 13)
R-41082295

ta:55°C
tc:90°C

DL-50W1A15-MP

DONE

MODEL:DL-50W1A15-MP
Constant Current LED Driver
Power Factor ≥ 0.95

SELV

○ ACL...Brown
○ ACN...Blue

INPUT

MADE IN CHINA
Cc

INPUT:100-277V ~ 0.75A 50/60Hz

OUTPUT:24-48V $\approx$ 1.15A P rated:Max. 55.2W

MAX.VOLTAGE:68V $\approx$ (NO LOAD)

IP67



+V...Red
-V...Black

ta:55°C
tc:90°C

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ADDRESS:No.3-2 of Kanglong 3rd Road, Henglan Town, Zhongshan, Guangdong 528478 P.R.China

DL-50W1A2-MP

DONE

MODEL:DL-50W1A2-MP
Constant Current LED Driver
Power Factor ≥ 0.95

SELV

○ ACL...Brown (Red)
○ ACN...Blue (Black)

INPUT

MADE IN CHINA
Cc

INPUT:100-277V ~ 0.75A 50/60Hz

OUTPUT:18-36V $\approx$ 1.2A P rated:Max. 43.2W

MAX.VOLTAGE:55V $\approx$ (NO LOAD)

IP67



+V...Red
-V...Black

ta:55°C
tc:90°C

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DL-50W1A35-MP

DONE

MODEL:DL-50W1A35-MP
Constant Current LED Driver
Power Factor ≥ 0.95

SELV

○ ACL...Brown (Red)
○ ACN...Blue (Black)

INPUT

MADE IN CHINA
Cc

INPUT:100-277V ~ 0.75A 50/60Hz

OUTPUT:18-36V $\approx$ 1.35A P rated:Max. 48.6W

MAX.VOLTAGE:55V $\approx$ (NO LOAD)

IP67



+V...Red
-V...Black

ta:55°C
tc:90°C

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DL-50W1A5-MP

DONE

MODEL:DL-50W1A5-MP
Constant Current LED Driver
Power Factor ≥ 0.95

SELV

○ ACL...Brown (Red)
○ ACN...Blue (Black)

INPUT

MADE IN CHINA
Cc

INPUT:100-277V ~ 0.75A 50/60Hz

OUTPUT:18-36V $\approx$ 1.5A P rated:Max. 54W

MAX.VOLTAGE:55V $\approx$ (NO LOAD)

IP67



+V...Red
-V...Black

ta:55°C
tc:90°C

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