

 广东东菱电源科技有限公司 Guangdong DonePower Technology Co.,Ltd 广东省中山市横栏镇新茂工业三区3号康龙三路 咨询热线:400-0760-585 WWW.DONEPOWER.COM.CN	产品类型	东菱 LED 室内驱动电源 DONE LED INTEGRATED SPECIAL DRIVER		
	产品系列	DL-7W-L 系列	REV	1.5

广东东菱电源科技有限公司

客户承认书

ACKNOWLEDGMENT FOR CUSTOMER

CUSTOMER/客户名:			
MODEL NO./产品型号:	DL-7W-L		
Rev./版本号	REV1.5		
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	
Guangdong Done Power Technology Co.,Ltd. 广东东菱电源科技有限公司 No.3-1&3-2, Kanglong 3rd Road,Henglan Town, Zhongshan, Guangdong 528478 P.R. China 地址: 广东省中山市横栏镇新茂工业区康龙三路3号之一之二 Post code:528478 邮编: 528478 TEL:0760-89838399 89838379 FAX:0760-89831157 89838396			

日期	变更原因	版本	审核
2017. 12. 15	初始发行版本。	V1. 0	
2019. 1. 4	第 3 页、第 4 页和第 9 页分别新增了 DL-7W250-L 和 DL-7W500-L 的型号、输出特性及标签。	V1. 1	
2019. 4. 8	第 7 页更新装配图纸。	V1. 2	
2019. 6. 3	第 4 页过电压 (OVER VOLTAGE) 修改为空载电压 (NO LOAD VOLTAGE)。	V1. 3	
2019. 12. 18	第 4 页新增输入 100-120Vac 60Hz 时的输出电流范围。	V1. 4	
2023. 5. 8	更新 LOGO	V1. 5	

FEATURES 产品特点

◇ Class II Driver

Class II 结构驱动

◇ Input voltage: 100-277V ~ 50Hz/60Hz

输入: 100-277V ~ 50Hz/60Hz

◇ Eff. > 77% @ 230Vac Full load

输入为 230Vac, 输出满负载, 效率可达 77%

◇ Surge Differential Mode +/- 1.0 KV (2 ohm) .

Class II (line to neutral) (IEC61000-4-5 2014)

浪涌等级为差模 L-N Class II +/- 1.0KV (2 ohm)

参照 IEC61000-4-5 2014

◇ Double 75 test pass (15 days)

可通过双 75 测试 (15 天)

◇ The LED DRIVER shall be applied 1500Vac for 60 seconds (HI - POT)

该 LED 驱动 I/P-O/P 耐压可达 1500Vac 持续 60S

◇ life design warranty for 3years

寿命设计, 质保 3 年

◇ Applied in: Ceiling lamp, Panel lamp, Track lamp and other indoor lighting lamp guide

应用于: 天花灯、面板灯、导轨灯等室内照明灯具



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	
				115Vac	230Vac
DL-7W190-L	100-277V ~ 50/60Hz	21-42Vdc	190mA	> 75%	> 80%
DL-7W250-L		12-24Vdc	250mA	> 75%	> 80%
DL-7W300-L		12-24Vdc	300mA	> 75%	> 80%
DL-7W350-L		12-21Vdc	350mA	> 75%	> 80%
DL-7W500-L		6-12Vdc	500mA	> 75%	> 77%
DL-7W600-L		6-12Vdc	600mA	> 75%	> 77%
DL-7W700-L		6-10Vdc	700mA	> 75%	> 77%

■ ELECTRICAL SPECIFICATION 电气规格

◇Input Characteristics 输入特性

INPUT VOLTAGE RANGE 输入电压范围	90 - 305V~
FREQUENCY RANGE 频率范围	47-63Hz
POWER FACTOR 功率因数	/
AC CURRENT 交流电流	0.2A max.@100Vac full load
INRUSH CURRENT(max.) 浪涌电流(最大)	Cold Start 30A @230Vac full load

◇Output Characteristics 输出特性

Model NO.型号	DL-7W190-L	DL-7W250-L	DL-7W300-L	DL-7W350-L	DL-7W500-L	DL-7W600-L	DL-7W700-L
RATED CURRENT 额定电流 (m A)	190mA	250mA	300mA	350mA	500mA	600mA	700mA
CONSTANT CURRENT REGION @120-277Vac 50/60Hz 电流范围@120-277Vac 50/60Hz	175~200mA	235~265mA	285~315mA	332~368mA	460~525mA	570~630mA	665~735mA
CONSTANT CURRENT REGION @100-120Vac 60Hz 电流范围@100-120Vac 60Hz	140~200mA	200~265mA	230~315mA	280~368mA	420~525mA	520~630mA	600~735mA
VOLTAGE RANGE 电压范围 (V dc)	21~42Vdc	12~24Vdc	12~24Vdc	12~21Vdc	6~12Vdc	6~12Vdc	6~10Vdc
RATED POWER 额定功率	7.98W	6W	7.2W	7.35W	6W	7.2W	7W
NO LOAD VOLTAGE 空载电压(V dc)	45-50 Vdc	26-30 Vdc	26-30 Vdc	26-30 Vdc	14-16 Vdc	14-16 Vdc	14-16 Vdc
EFFICIENCY(Typ.) 效率(Typ.)	>80%@230V ac Full Load	>80%@230V ac Full Load	>80%@230V ac Full Load	>80%@230V ac Full Load	>77%@230V ac Full Load	>77%@230V ac Full Load	>77%@230Va c Full Load
RIPPLEOF THE OUTPUT CURRENT 输出电流纹波 (LED)	≤10%						
RIPPLEOF THE OUTPUT CURRENT 输出电流纹波 (电子负载)	≤30%						
CURRENT TOLERANCE 电流精度	±7%	±5%					

LINE REGULATION 线性调整率	±3%
LOAD REGULATION 负载调整率	±3%
SETUP TIME 启动时间	<1000ms @ 115Vac full load <500ms @ 230Vac full load

*以上参数均为上电 2 分钟内测得

◇Protection 保护

OVER CURRENT (Typ.)	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 (60Hz) 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	-25 ~ +40°C(Refer to "Derating Curve") -25 ~ +40°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	-25 ~ +75°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	50K hrs min. MIL-HDBK-217F (25°C)

■ SAFETY & EMC 安全与电磁兼容

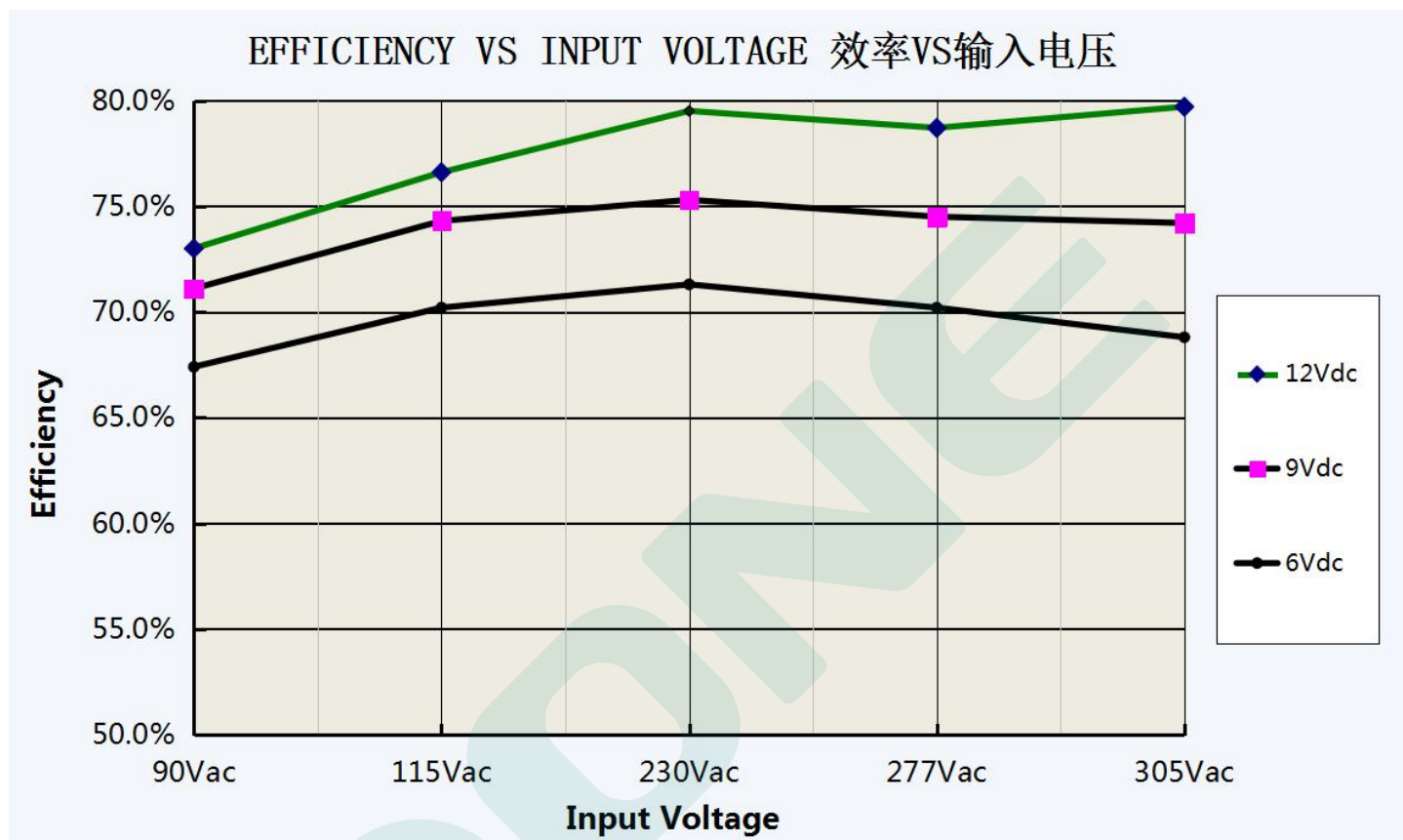
SUGER 浪涌	Differential Mode+/- 1.0 KV (2 ohm) . Class II (line to neutral) (IEC61000-4-5 2014) 雷击浪涌等级为差模 L-N Class II +/- 1.0 KV (2 ohm) (IEC61000-4-5 2014)
LEAKAGE CURRENT 漏电流	/

NOTE :

The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

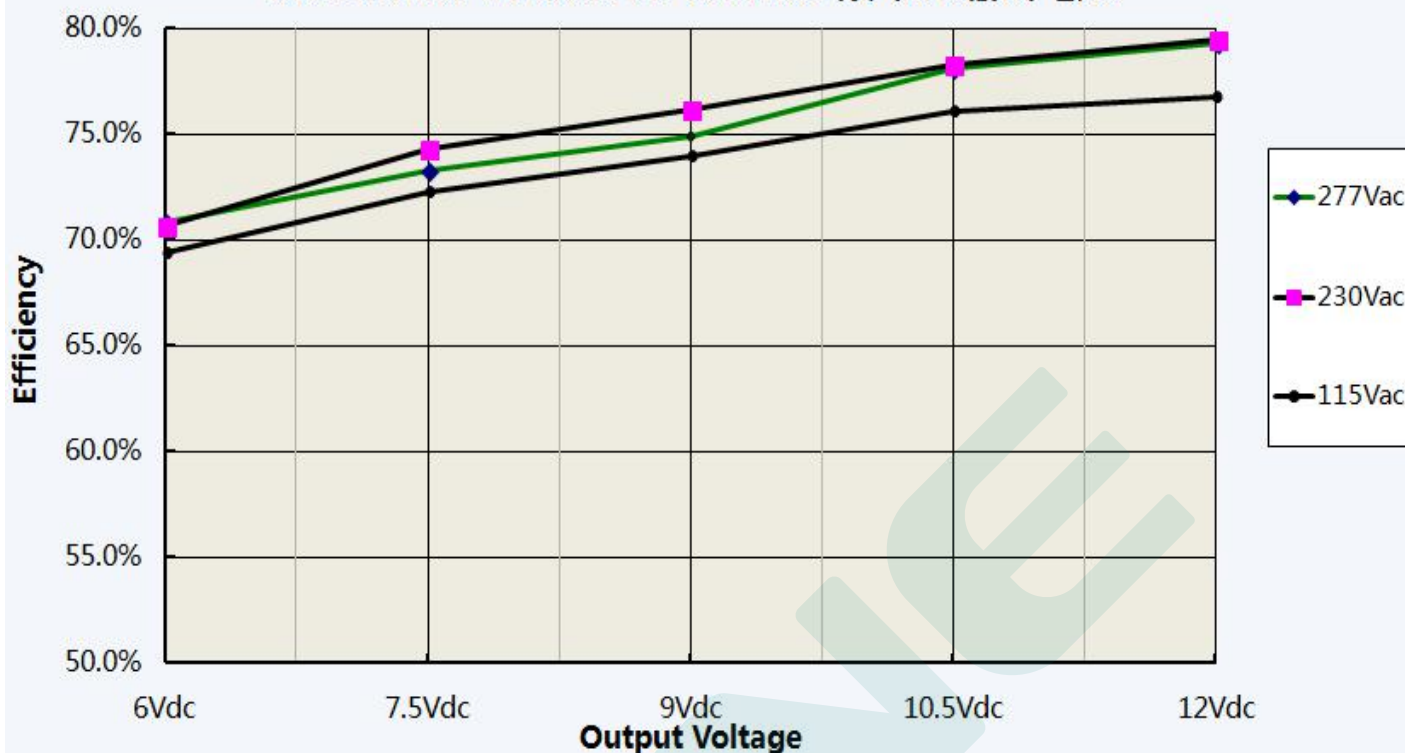
电源作为一个元件与终端设备使用，因为 EMC 受整套装置的影响，终端设备制造商需对整套装置重新进行 EMC 确认。

■ EFFICIENCY VS INPUT VOLTAGE 效率 VS 输入电压(型号:DL-7W600-L)

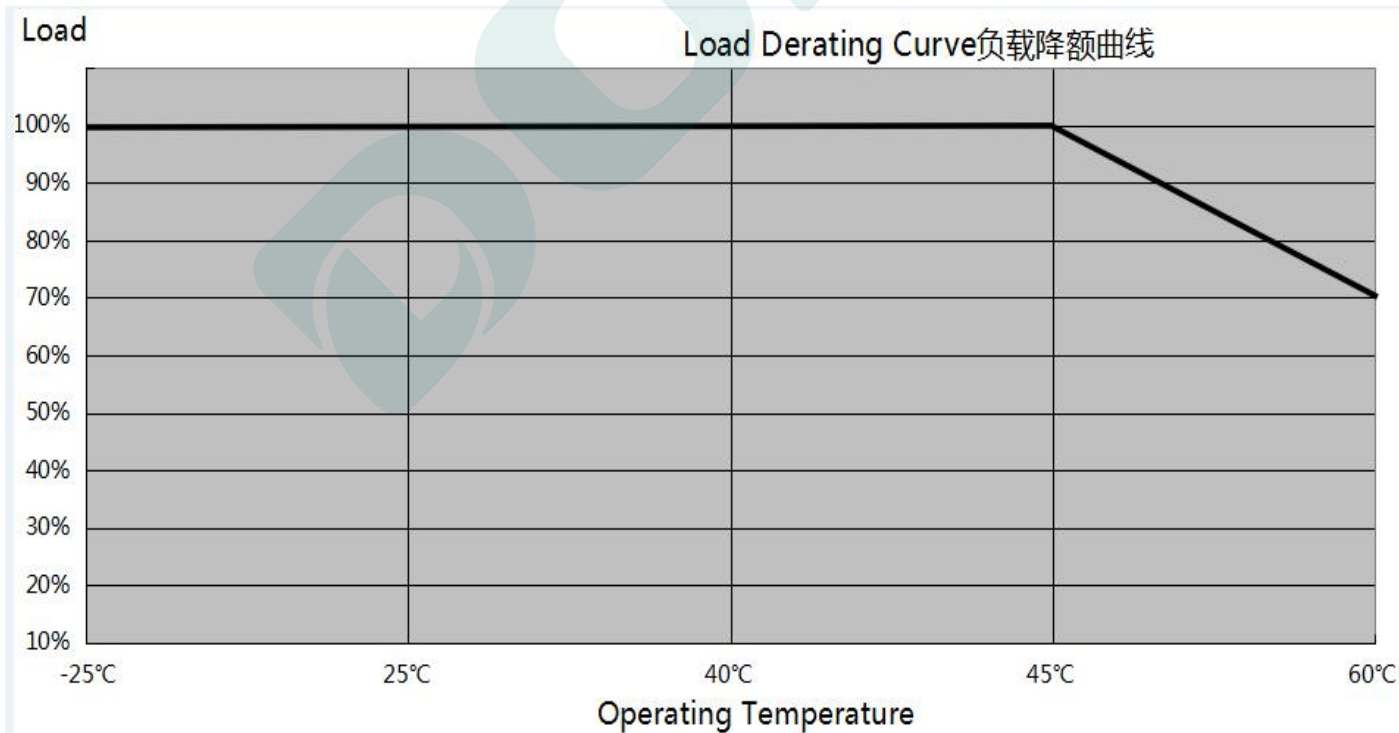


■ EFFICIENCY VS OUTPUT VOLTAGE 效率 VS 输出电压(型号:DL-7W600-L)

EFFICIENCY VS OUTPUT VOLTAGE 效率VS输出电压



LOAD DERATING CURVE 降额曲线 (型号:DL-7W600-L)



MECHANICAL SPECIFICATION & PACKING 机械尺寸图 & 包装:

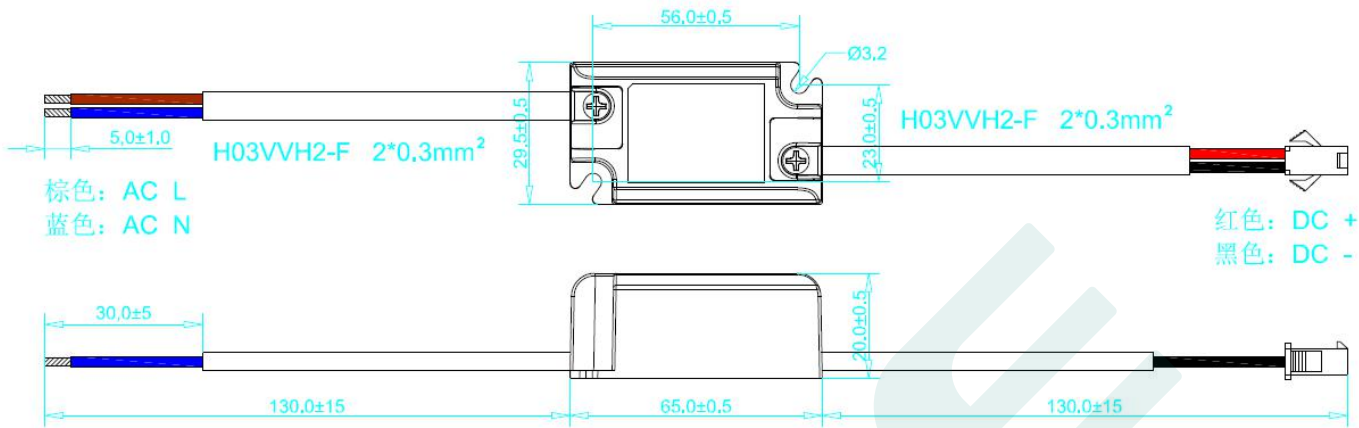
DIMENSION 尺寸 (mm)

L65*W29*H20mm

PACKING 包装

/

Case No.机壳型号：L02 Unit 单位:mm



MONOMER WEIGHT 单体重量

MONOMER WEIGHT 单体重量 34.1g

LABELLING 标签

DL-7W190-L	 MODEL: DL-7W190-L Constant Current LED Driver Power Factor ≥0.5 SELV ☐ ACL ☐ ACN ☒ INPUT 0.75-1.5mm² INPUT:100-277V ~ 0.2A 50/60Hz OUTPUT:21-42V ---0.19A P rated:7.98W NO LOAD:DC 50V ☐ V+ 0.5-1.5mm² ☒ OUTPUT 0.5-1.5mm² ☐ V- MADE IN CHINA AI      tc ta:40℃ tc:75℃ MFRS:ZHONGSHAN DONE LIGHTING TECHNOLOGY CO.,LTD ADDRESS: No.2 of Kanglong 3rd Road henglan Town, Zhongshan, Guangdong, China
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DL-7W250-L

DONE MODEL: DL-7W250-L
Constant Current LED Driver
Power Factor ≥ 0.5 SELV

○ ACL INPUT 0.75-1.5mm² ○ ACN

INPUT: 100-277V ~ 0.2A 50/60Hz
OUTPUT: 12-24V $\equiv$ 0.25A P rated: 6.0W
MAX. VOLTAGE: 30V $\equiv$ (NO LOAD)

○ V+ OUTPUT 0.5-1.5mm² ○ V-
ta: 40°C
tc: 75°C

MADE IN CHINA Bf

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ADDRESS: No.2 of Kanglong 3rd Road henglan Town, Zhongshan, Guangdong, China

DL-7W300-L

DONE MODEL: DL-7W300-L
Constant Current LED Driver
Power Factor ≥ 0.5 SELV

○ ACL INPUT 0.75-1.5mm² ○ ACN

INPUT: 100-277V ~ 0.2A 50/60Hz
OUTPUT: 12-24V $\equiv$ 0.3A P rated: 7.2W
NO LOAD: DC 30V

○ V+ OUTPUT 0.5-1.5mm² ○ V-
ta: 40°C
tc: 75°C

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DL-7W350-L

DONE MODEL: DL-7W350-L
Constant Current LED Driver
Power Factor ≥ 0.5 SELV

○ ACL INPUT 0.75-1.5mm² ○ ACN

INPUT: 100-277V ~ 0.2A 50/60Hz
OUTPUT: 12-21V $\equiv$ 0.35A P rated: 7.35W
NO LOAD: DC 30V

○ V+ OUTPUT 0.5-1.5mm² ○ V-
ta: 40°C
tc: 75°C

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DL-7W500-L

DONE MODEL: DL-7W500-L SELV
Constant Current LED Driver

○ ACL INPUT 0.75-1.5mm² ○ ACN

INPUT: 100-277V ~ 0.2A 50/60Hz
OUTPUT: 6-12V $\equiv$ 0.5A P rated: 6W
MAX. VOLTAGE: 16V $\equiv$ (NO LOAD)

○ V+ OUTPUT 0.5-1.5mm² ○ V-
ta: 40°C
tc: 75°C

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DL-7W600-L

DONE MODEL: DL-7W600-L
Constant Current LED Driver
Power Factor ≥ 0.5 SELV

☐ ACL ☒ INPUT ☐ ACN
0.75-1.5mm²

INPUT: 100-277V ~ 0.2A 50/60Hz
OUTPUT: 6-12V $\Rightarrow$ 0.6A P rated: 7.2W
NO LOAD: DC 16V

☐ V+ ☒ OUTPUT ☐ V-
0.5-1.5mm²

MADE IN CHINA
AI

tc

ta: 40°C
tc: 75°C

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DL-7W700-L

DONE MODEL: DL-7W700-L
Constant Current LED Driver
Power Factor ≥ 0.5 SELV

☐ ACL ☒ INPUT ☐ ACN
0.75-1.5mm²

INPUT: 100-277V ~ 0.2A 50/60Hz
OUTPUT: 6-10V $\Rightarrow$ 0.7A P rated: 7W
NO LOAD: DC 16V

☐ V+ ☒ OUTPUT ☐ V-
0.5-1.5mm²

MADE IN CHINA
AI

tc

ta: 40°C
tc: 75°C

MFRS: ZHONGSHAN DONE LIGHTING TECHNOLOGY CO., LTD
ADDRESS: No.2 of Kanglong 3rd Road henglan Town, Zhongshan, Guangdong, China