

 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康龙三路3号东菱工业园 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-12W-L 系列	REV	1.3

广东东菱电源科技有限公司

客户承认书

SPECIFICATION FOR APPROVAL

CUSTOMER/客户名:			
MODEL NO. /产品型号:	DL-12W-L		
Rev./版本号	V1.3		
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			
TESTED BY 检查	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, XinMao Industry Zone, Henglan Town, Zhongshan City, Guangdong Province, P. R. China Post code:528478 地址: 中山市横栏镇新茂工业区康龙三路3号之一之二 邮编: 528478 TEL:0760-89838399 89838379 FAX:0760-89831157 89838396			

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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		2017/12/04	梁家伟	
2	V1.1	更新了公司地址、更新产品的装配图。	更新优化	2019/4/8	李树林	
3	V1.2	① 修改了第 4 页电流精度范围 @100-120Vac 电流范围为±12% @120-277Vac 电流范围为±7% ② 第 4 页新增输入 100-120Vac 60Hz 时的输出电流范围和 DL-12W250-L 机型参数 ③ 第 3 页型号列表新增 DL-12W250-L 机型 ④ DL-12W250/300/350-L 过电压 修改为 45~57Vdc , DL-12W600/700-L 过电压修改为 25-33Vdc		20220105	苏崇殿	
4	V1.3	①修改了第 4 页电流精度范围 @120-277Vac 电流范围为±10%		20220228	苏崇殿	
5						

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FEATURES 产品特点

- ◇ Class II Driver
Class II结构驱动
- ◇ Input voltage:100~277Vac 50Hz-60Hz
输入:100~277Vac 50Hz-60Hz
- ◇ Eff.>83% @230Vac Full load
输入为 230Vac , 输出满负载 , 效率可达 83%
- ◇ 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	效率 Efficiency	功率因数 (PF)
				115Vdc	230Vdc	230Vdc
DL-12W250-L	100~277Vac 50/60Hz	21-42Vdc	250mA	82%	85%	>0.5
DL-12W300-L		21-42Vdc	300mA			
DL-12W350-L		21-36Vdc	350mA			
DL-12W600-L		11-22Vdc	600mA	80%	83%	>0.5
DL-12W700-L		11-18Vdc	700mA			

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■ ELECTRICAL SPECIFICATION 电气规格

◇Input Characteristics 输入特性

INPUT VOLTAGE RANGE 输入电压范围	90 ~ 305Vac
FREQUENCY RANGE 频率范围	47-63Hz
POWER FACTOR 功率因数	>0.5@230Vac full load
AC CURRENT 交流电流	0.25A max.@115Vac full load
INRUSH CURRENT(max.) 浪涌电流(最大)	Cold Start 55A @230Vac full load

◇Output Characteristics 输出特性

Model NO.型号	DL-12W300-L	DL-12W350-L	DL-12W250-L	DL-12W600-L	DL-12W700-L
RATED CURRENT 额定电流 (m A)	300mA	350mA	250mA	600mA	700mA
CONSTANT CURRENT REGION 电流范围 @120-277Vac 50/60Hz	270~330mA	315~385mA	225~275mA	540~660mA	630~770mA
CONSTANT CURRENT REGION 电流范围 @100-120Vac 60Hz	264~336mA	308~392	220~280mA	528~672mA	616~784mA
VOLTAGE RANGE 电压范围 (V dc)	21~42Vdc	21~36Vdc	21~42Vdc	11~22Vdc	11~18Vdc
RATED POWER 额定功率	12.6W	12.6W	10.5W	13.2W	12.6W
OVER VOLTAGE 过电压(V dc)	45-57Vdc			25-33Vdc	
EFFICIENCY(Typ.) 效率(Typ.)	>85%@230Vac Full Load			>83%@230Vac Full Load	
RIPPLEOF THE OUTPUT CURRENT 输出电流纹波 (LED)	≤5%				
CURRENT TOLERANCE 电流精度	±10% 注 4)				
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				

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◇Protection 保护

OVER CURRENT (Typ.) Note.4 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 (60Hz) 输入,满载,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
- 4)
The output current accuracy of dl-12w-l series is $\pm 12\%$ when the input voltage is 100 ~ 120VAC and $\pm 10\%$ when the input voltage is 120 ~ 277VAC
DL-12W-L 系列输入电压 100~120Vac 时输出电流精度为 $\pm 12\%$, 输入电压 120~277Vac 时输出电流精度为 $\pm 10\%$ 。

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)

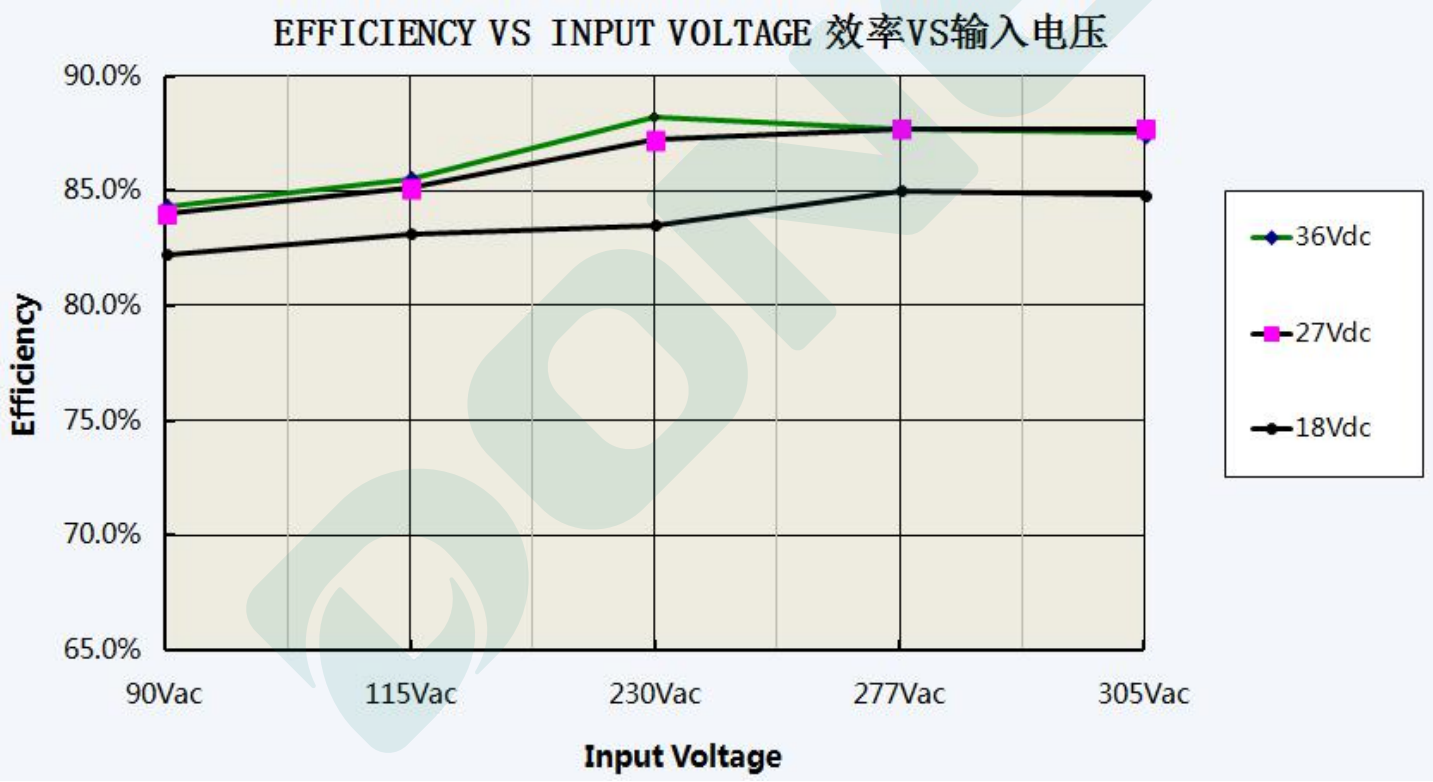
DONE 广东东菱电源科技有限公司 Guangdong DonePower Technology Co., Ltd 广东省中山市横栏镇康龙三路3号东菱工业园 咨询热线: 400-0760-585 WWW.DONEPOWER.COM.CN	产品类型	东菱 LED 室内驱动电源 DONE LED INTEGRATED SPECIAL DRIVER		
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■ SAFETY & EMC 安全与电磁兼容

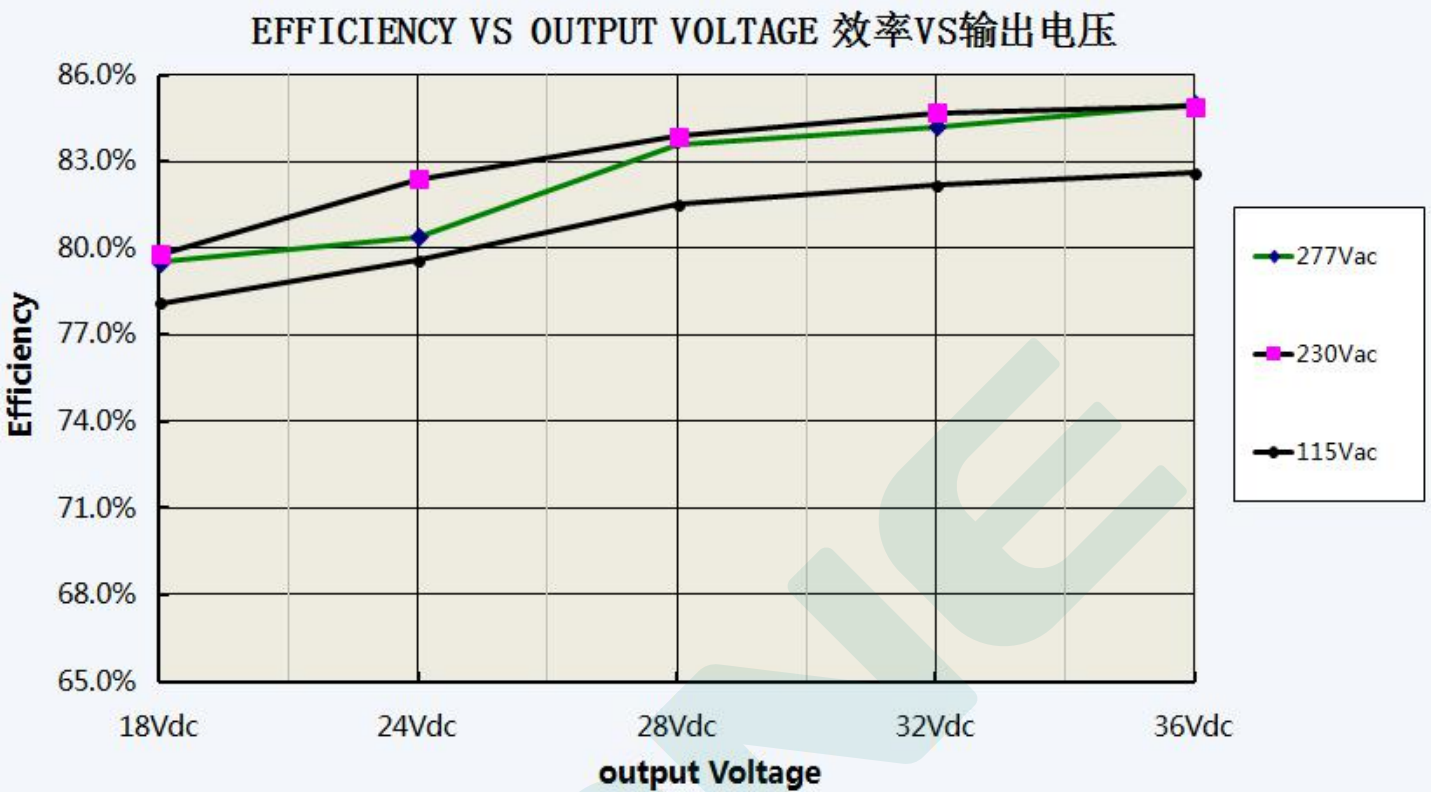
SUGER 浪涌	Differential Mode+/- 1.0 KV (2 ohm) . Class II (line to neutral) (IEC61000-4-5 2014) 雷击浪涌等级为差模 L-N Class II +/- 1.0 KV (2 ohm) (IEC61000-4-5 2014)
LEAKAGE CURRENT 漏电流	/

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。

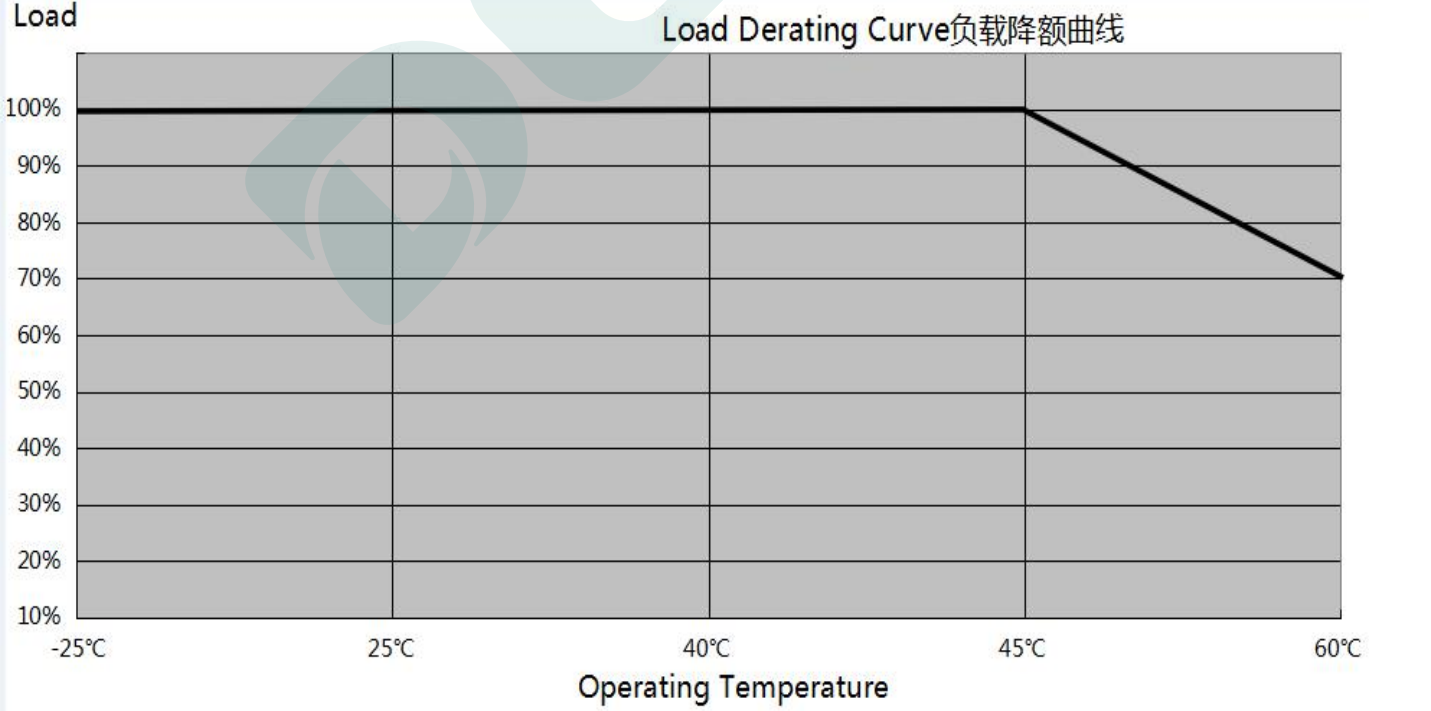
■ EFFICIENCY VS INPUT VOLTAGE 效率 VS 输入电压(型号:DL-12W600-L)



EFFICIENCY VS OUTPUT VOLTAGE 效率 VS 输出电压 (型号:DL-12W600-L)



LOAD DERATING CURVE 降额曲线 (型号:DL-12W600-L)

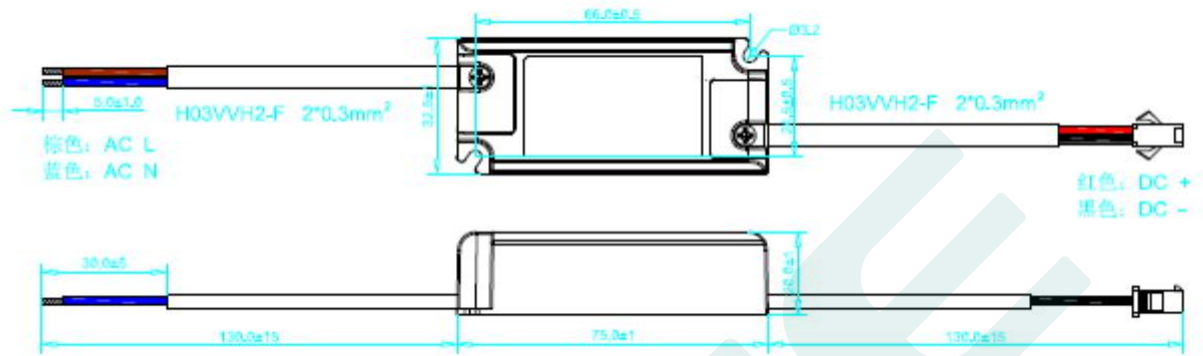


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MECHANICAL SPECIFICATION & PACKING 机械尺寸图 & 包装:

DIMENSION 尺寸 (mm)	L75*W33*H20mm
PACKING 包装	/

Case No.机壳型号 : L03 Unit 单位:mm



MONOMER WEIGHT 单体重量

MONOMER WEIGHT 单体重量	35.7g
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LABELLING 标签

DL-12W300-L	MODEL : DL-12W300-L Constant Current LED Driver Power Factor ≥0.5 SELV INPUT:100-277V~ 0.25A 50/60Hz OUTPUT:21-42V ⇄ 0.3A Max:12.6W NO LOAD:DC 50V ta:40℃ tc:75℃ MADE IN CHINA MFRS:ZHONGSHAN DONE LIGHTING TECHNOLOGY CO.,LTD ADDRESS: No.2 of Kanglong 3rd Road henglan Town, Zhongshan, Guangdong, China
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DL-12W350-L	 MODEL: DL-12W350-L SELV Constant Current LED Driver Power Factor ≥ 0.5 INPUT: 100-277V~ 0.25A 50/60Hz OUTPUT: 21-36V $\Rightarrow$ 0.35A Max: 12.6W NO LOAD: DC 50V tc ☐ ACL INPUT ☒ ☐ ACN ☒ ☐ V+ OUTPUT ☒ ☐ V- ☒      MADE IN CHINA MFRS: ZHONGSHAN DONE LIGHTING TECHNOLOGY CO., LTD ADDRESS: No.2 of Kanglong 3rd Road henglan Town, Zhongshan, Guangdong, China ta: 40°C tc: 75°C
DL-12W600-L	 MODEL: DL-12W600-L SELV Constant Current LED Driver Power Factor ≥ 0.5 INPUT: 100-277V~ 0.25A 50/60Hz OUTPUT: 11-22V $\Rightarrow$ 0.6A Max: 13.2W NO LOAD: DC 28V tc ☐ ACL INPUT ☒ ☐ ACN ☒ ☐ V+ OUTPUT ☒ ☐ V- ☒      MADE IN CHINA MFRS: ZHONGSHAN DONE LIGHTING TECHNOLOGY CO., LTD ADDRESS: No.2 of Kanglong 3rd Road henglan Town, Zhongshan, Guangdong, China ta: 40°C tc: 75°C
DL-12W700-L	 MODEL: DL-12W700-L SELV Constant Current LED Driver Power Factor ≥ 0.5 INPUT: 100-277V~ 0.25A 50/60Hz OUTPUT: 11-18V $\Rightarrow$ 0.7A Max: 12.6W NO LOAD: DC 28V tc ☐ ACL INPUT ☒ ☐ ACN ☒ ☐ V+ OUTPUT ☒ ☐ V- ☒      MADE IN CHINA MFRS: ZHONGSHAN DONE LIGHTING TECHNOLOGY CO., LTD ADDRESS: No.2 of Kanglong 3rd Road henglan Town, Zhongshan, Guangdong, China ta: 40°C tc: 75°C
DL-12W250-L	 MODEL: DL-12W250-L SELV Constant Current LED Driver Power Factor ≥ 0.5 INPUT: 100-277V ~ 0.25A 50/60Hz OUTPUT: 21-42V $\Rightarrow$ 0.25A P rated: 10.5W MAX. VOLTAGE: 50V $\Rightarrow$ (NO LOAD) tc ☐ ACL INPUT ☒ ☐ ACN ☒ ☐ V+ OUTPUT ☒ ☐ V- ☒      MADE IN CHINA Ea MFRS: GUANGDONG DONE POWER TECHNOLOGY CO., LTD Add.: No.3-1&3-2, Kanglong 3rd Road, Henglan Town, Zhongshan, Guangdong, P.R. China ta: 40°C tc: 75°C