

 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 室外驱动电源 DONE WATERPROOF LED DRIVER		
	产品系列	DL-5W-MPC	REV.	1. 1

广东东菱电源科技有限公司

Guangdong Done Power Technology Co.,Ltd

SPECIFICATION

CUSTOMER			
MODEL NO.	DL-5W-MPC		
VERSION	V1. 1		
SAMPLE DATE			
CUSTOMER			
TESTED BY	CHECK	APPROVE	
CUSTOMER REMARKS			
Please return to us one copy of "SPECIFICATION FOR APPROVAL" with you approved signature.			
MANUFACTRUE			
EDIT	CHECK	APPROVE	
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: 广东省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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FEATURES

- ◇ Class II structure
- ◇ Input Voltage:100-240V ~ 50/60Hz
- ◇ Input 230Vac, full load output, Eff. > 74%
- ◇ Lightning surge : differential mode L-N Class II +/- 1 kV (2 ohm) 1kV
refer to IEC61000-4-5 2014
- ◇ Hrough The double 85 Test (15 天) @230Vac Full load
- ◇ Derive the LED driver I/P-O/P pressure can reach 1500Vac last 60S
- ◇ life design warranty for 3years
- ◇ A Applied in: Street lamp, project-light lamp, wash wall lamp or other outdoor lamps and lanterns



TYPICAL APPLICATIONS

Indoor household lighting. Indoor commercial lighting.

Outdoor commercial lighting

MODEL LIST

Model	AC Input	Output Voltage	Output Current	Efficiency	
				115Vac	230Vac
DL-5W-C300-MPC	100~240Vac 50/60Hz	11-18Vdc	300mA	74%	74%
DL-5W-C270-MPC		11-18Vdc	270mA	74%	74%
DL-5W-C240-MPC		11-18Vdc	240mA	74%	74%
DL-5W-C210-MPC		11-18Vdc	210mA	74%	74%

Remark :

1. Default tested at 230Vac,full load with 30 minutes,Ta:25℃.

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■ SPECIFICATION

◇ INPUT

Rated voltage	100 - 240Vac
Frequency	50/60Hz
Power factor(PF)	/
Input current	Iin<0.12A @100Vac full load
Inrush current (typ.)	Cold start (25°C)<70A @230Vac

◇ OUTPUT

Model	DL-5W-C300-MPC	DL-5W-C270-MPC	DL-5W-C240-MPC	DL-5W-C210-MPC
Rated current	300mA	270mA	240mA	210mA
current range @100-277Vac 50/60Hz	270~310mA	251~289mA	223.2~256.8mA	225~224.7mA
Output voltage range	11-18Vdc	11-18Vdc	11-18Vdc	11-18Vdc
Rated output power	5.4W	4.86W	4.32W	3.78W
No load voltage	< 30Vdc	< 30Vdc	< 30Vdc	< 30Vdc
Efficiency	>74%@230Vac Full Load	>74%@230Vac Full Load	>74%@230Vac Full Load	>74%@230Vac Full Load
Output current ripple (LED)	≤5%			
Accuracy off output current	±7%			
Line regulation	±5%			
Load regulation	±7%			
Setup time	<500ms @ 230Vac full load			

◇ Protection

Over Load protection	Protection mode: hiccup restart mode, automatic recovery after removal of abnormal load
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	conditions.
Short Circuit Protection	Doze mode, can automatically recover after abnormal conditions are removed.
Over Voltage protection	Protection mode: hiccuping or clamping in output maximum voltage ,Production undamaged,When troubleshooting,Normal operation of power supply.

Remarks:

1. All specifications are tested at 230Vac (50Hz) , rated load, and Ta:25°C.
2. Including setting error, linear adjustment rate and load adjustment rate.
- 3.Constant current mode operates under rated output voltage of 50%~100%, suitable for LED and other related industries

ENVIRONMENT

Working temperature	-30 ~ +55°C (Refer to "Derating Curve")
Working humidity	20 ~ 95% RH,non-condensing
Storage temperature/humidity	-30~+85°C, 10 ~ 95% RH
Resistant to vibration	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
High-pot test	I/P-O/P:1.500KVAC
Insulation resistance	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH
MTBF	150K hrs min. MIL-HDBK-217F (Ta=25°C)

SAFETY & EMC

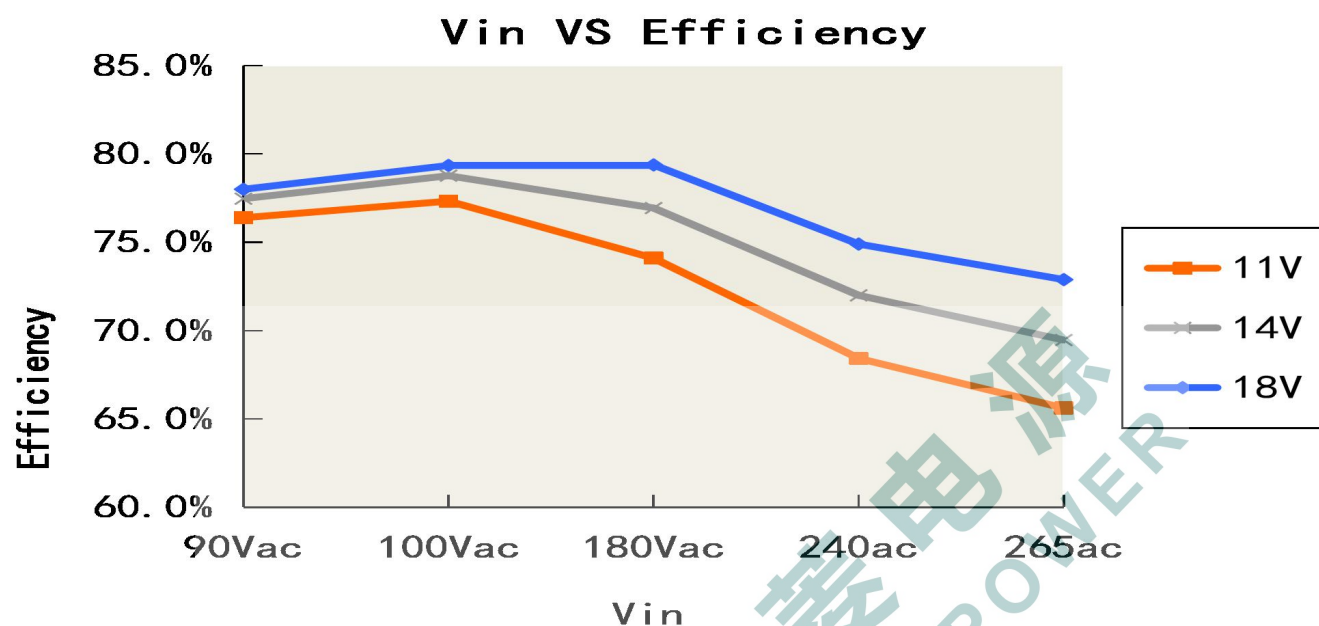
Safety	/
EMC	/
Surge level	difference module L-N Class II +/- 1 KV (2 ohm) (IEC61000-4-5 2014)
Leakage current	<0.7mA

Remarks:

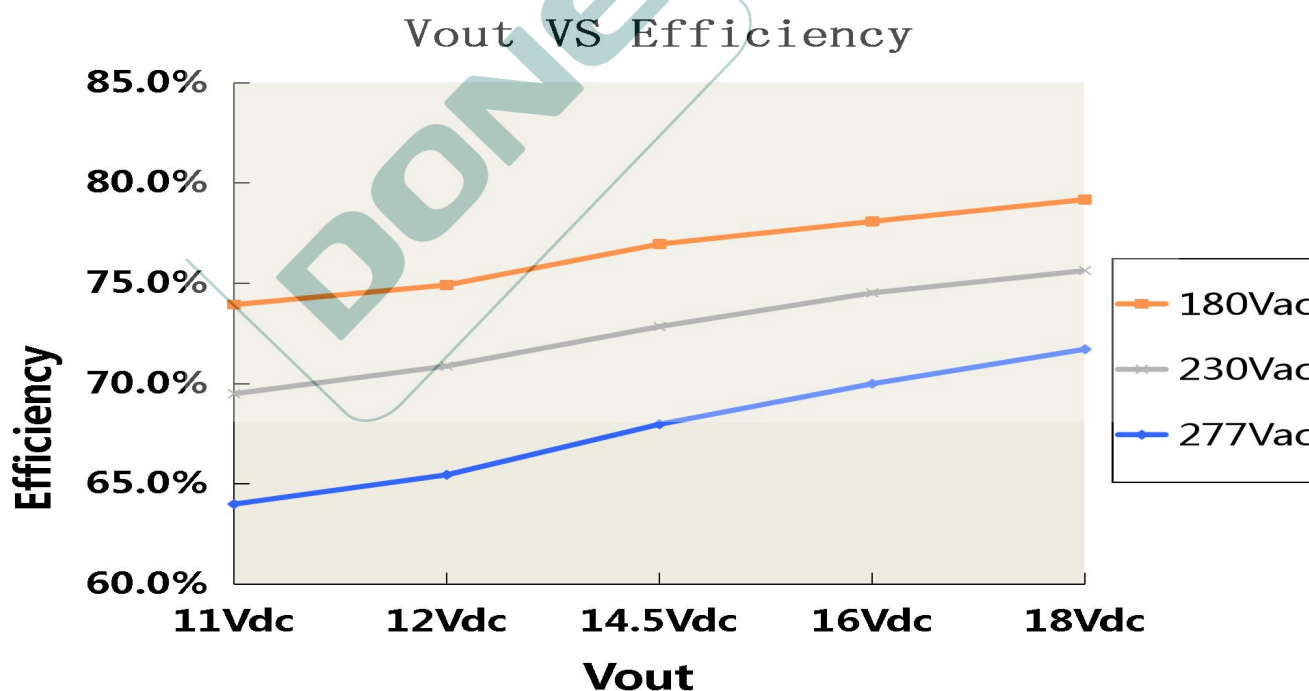
The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

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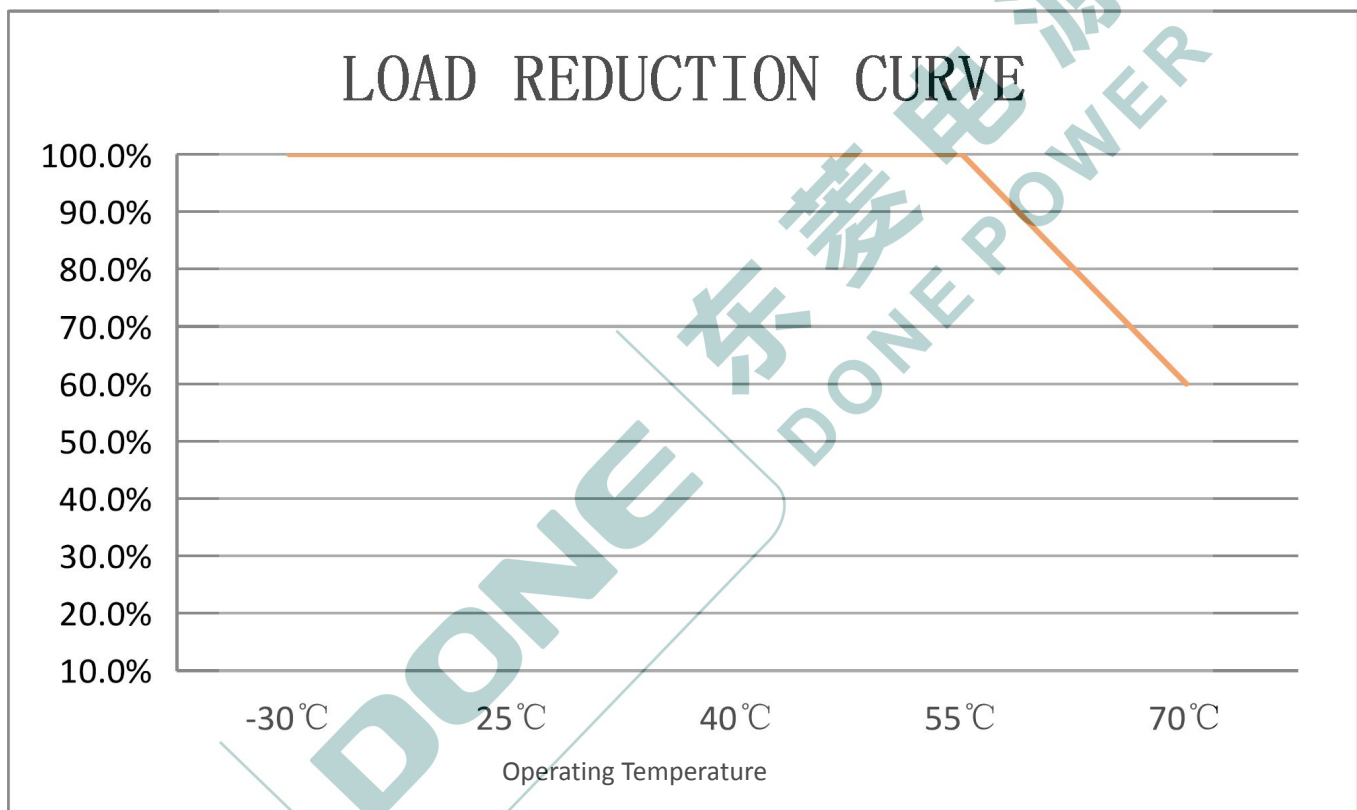
Vin VS Efficiency (DL-5W-C300-MPC)



Vout VS Efficiency (DL-5W-C300-MPC)



LOAD DERATING CURVE

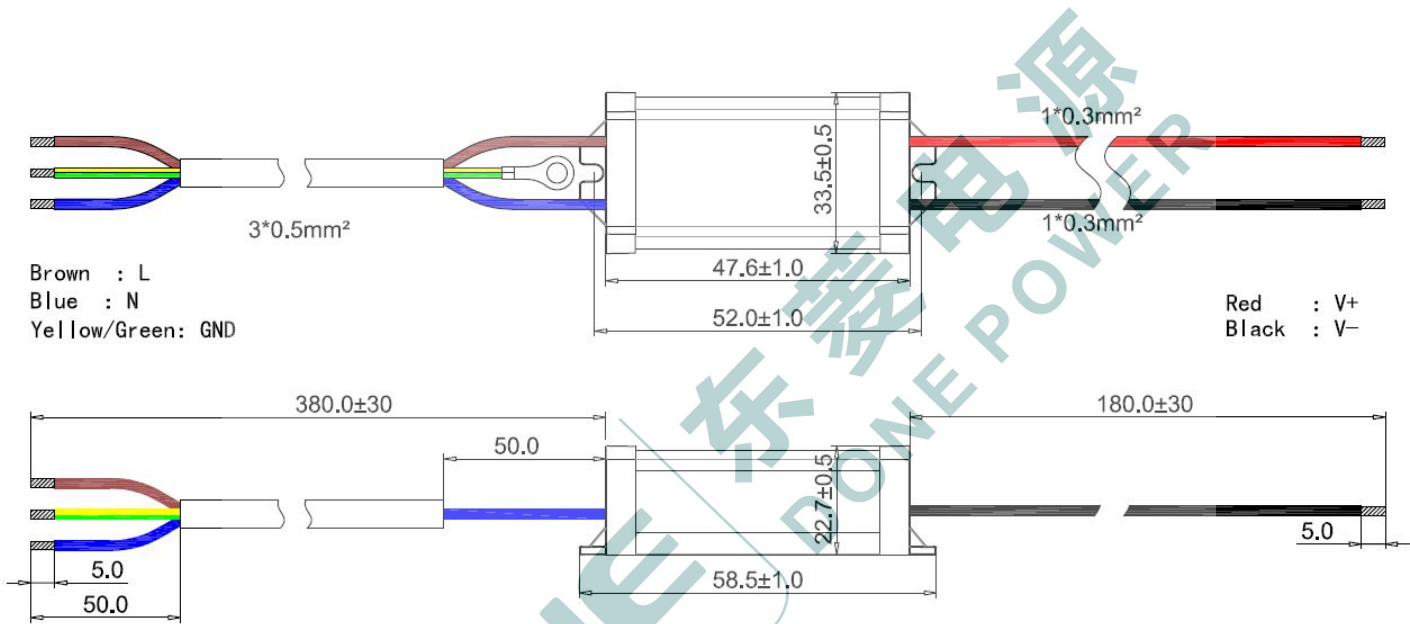


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MACHINE SIZE MAP

DIMENSION (mm)	58.5*33.5*22.7mm
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Case model : 2M10A
 unit:mm



WEIGHT

Weight	71g
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