



## 广东东菱电源科技有限公司

Guangdong Done Power Technology Co.,Ltd

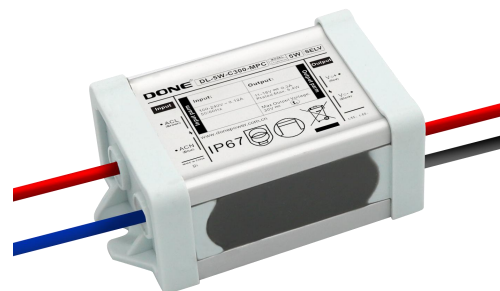
### SPECIFICATION

CUSTOMER			
MODEL NO.	DL-5W-MPC		
VERSION	V1.3		
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	
<p>Guangdong Done Power Technology Co.,Ltd 广东东菱电源科技有限公司</p> <p>No. 3-1&amp;3-2, Kanglong 3rd Road, XinMao Industry Zone, Henglan Town, Zhongshan City, Guangdong Province, P. R. China Post code:528478</p> <p>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</p> <p>TEL:0760-89838399      89838379      FAX:0760-89831157      89838396</p>			



## 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	13-18Vdc	300mA	74%	74%
DL-5W-C270-MPC		13-18Vdc	270mA	74%	74%
DL-5W-C240-MPC		13-18Vdc	240mA	74%	74%
DL-5W-C210-MPC		13-18Vdc	210mA	74%	74%

### Remark :

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

## ■ SPECIFICATION

### ◇ INPUT

Rated voltage	100 - 240Vac
Frequency	50/60Hz
Power factor(PF)	/
Input current	$I_{in} < 0.12A$ @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	13-18Vdc	13-18Vdc	13-18Vdc	13-18Vdc
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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 <b>广东东菱电源科技有限公司</b> 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.	1.3

	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)

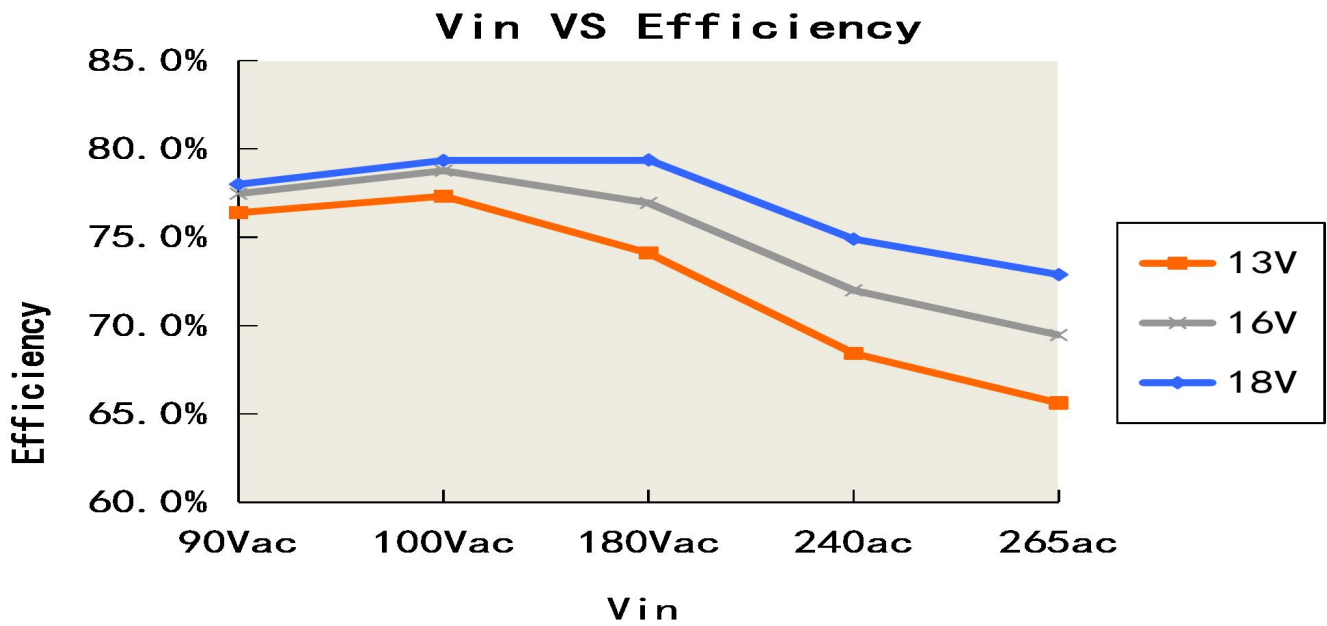
**SAFETY & EMC**

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

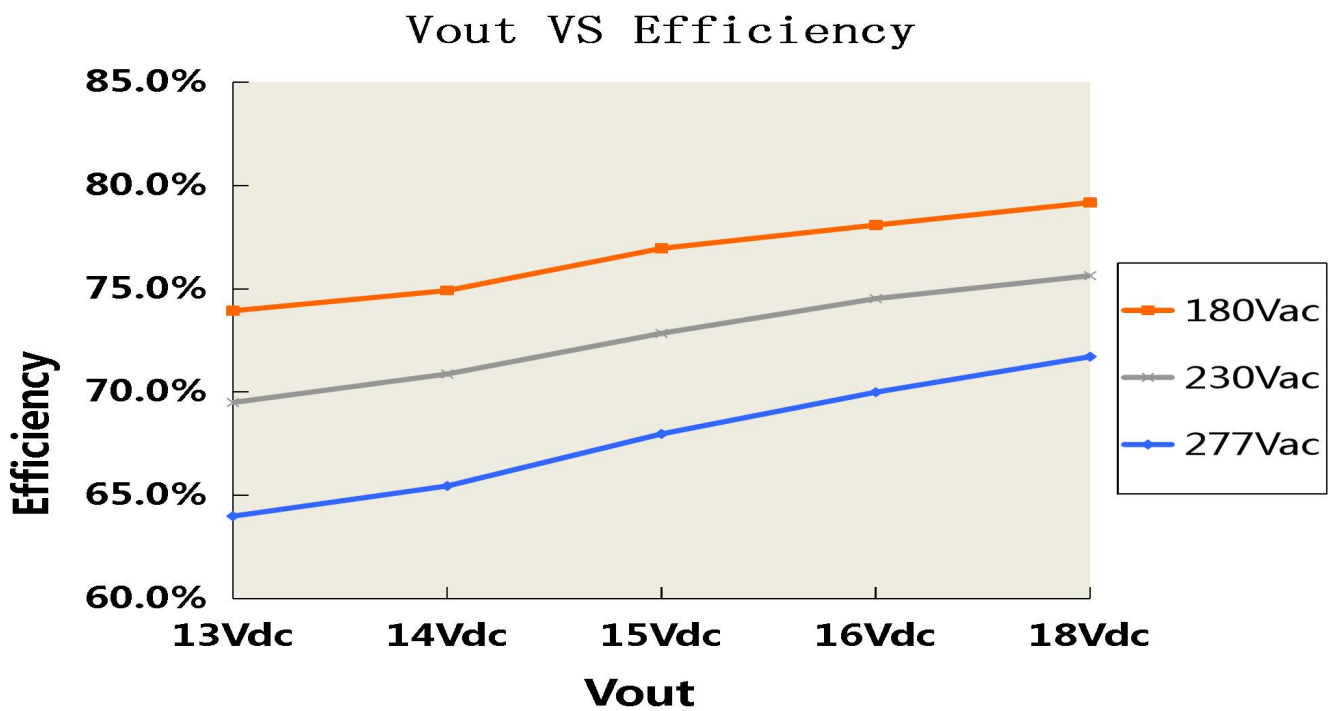
**Remarks:**

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.

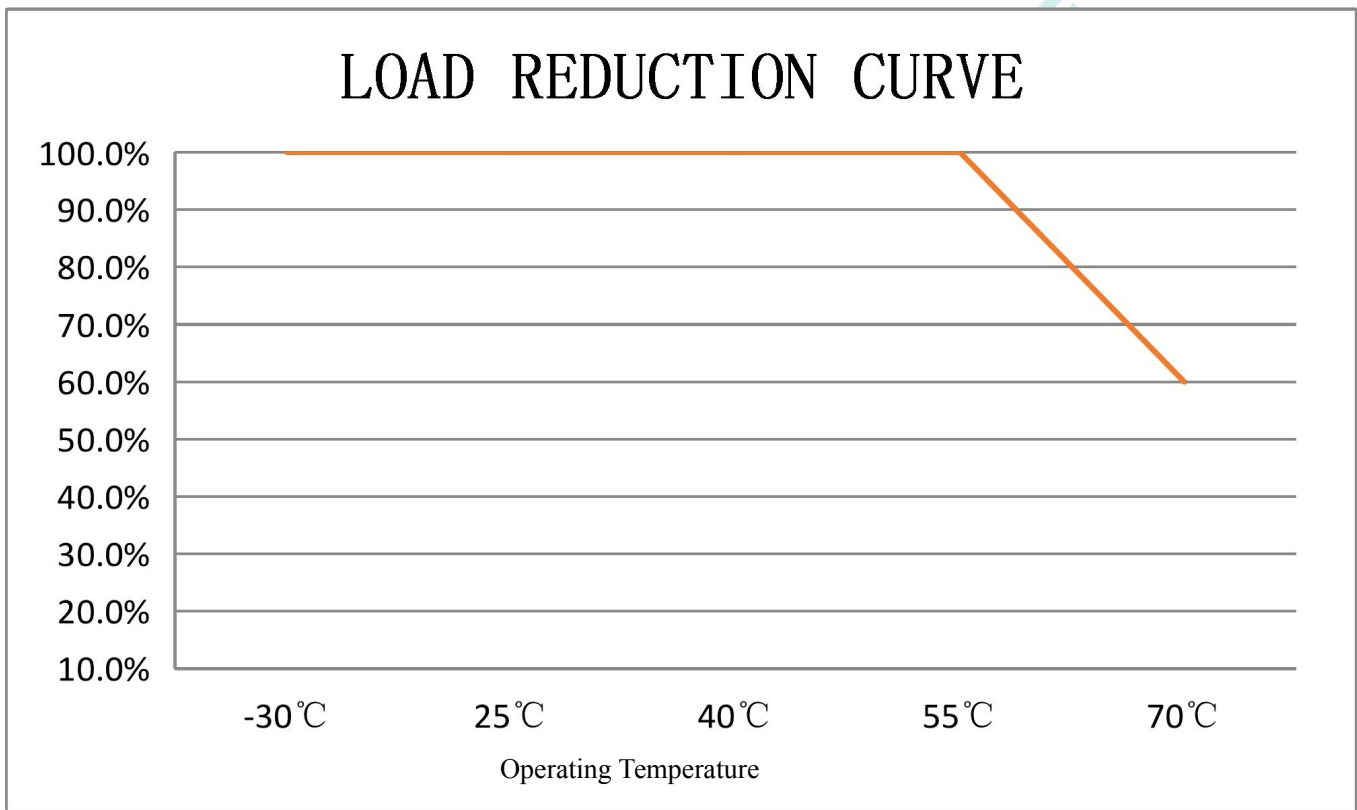
■ Vin VS Efficiency (DL-5W-C300-MPC)



■ Vout VS Efficiency (DL-5W-C300-MPC)



LOAD DERATING CURVE

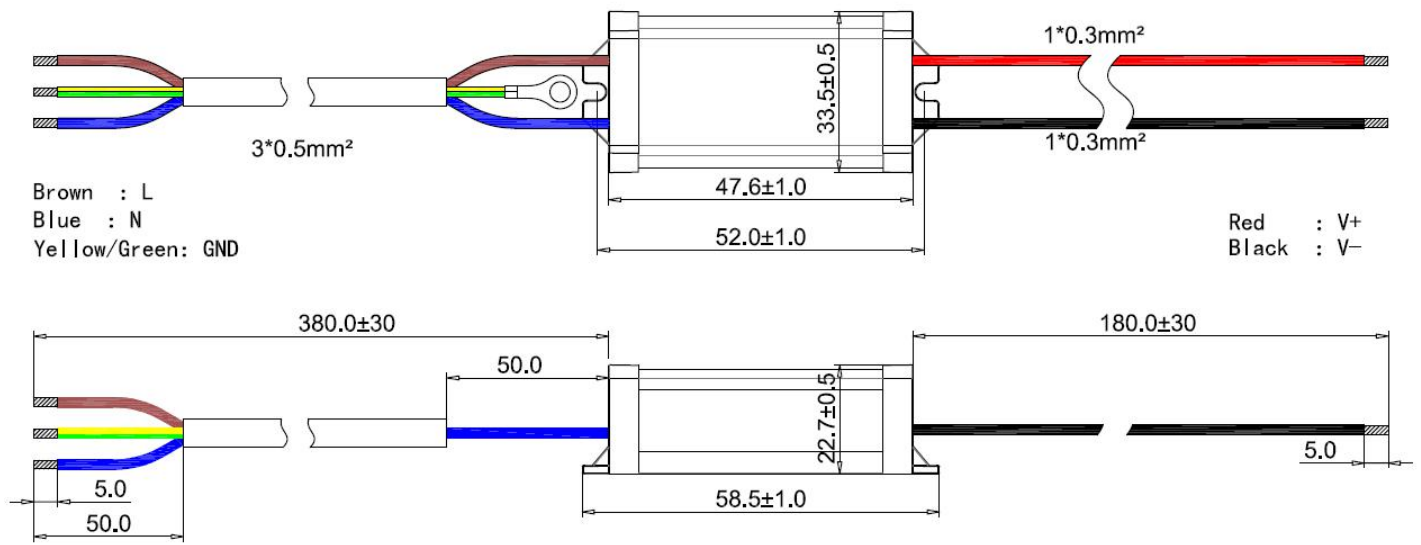


## MACHINE SIZE MAP

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

unit:mm



## WEIGHT

Weight	71g
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