 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	Product type	DONE WATERPROOF LED DRIVER		
	Product series	DL-30W-MPC	REV.	1.0

广东东菱电源科技有限公司

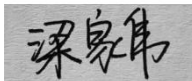
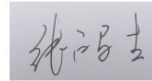
Guangdong Done Power Technology Co.,Ltd

SPECIFICATION

CUSTOMER	
MODEL NO.	DL-30W-MPC
VERSION	V1.0
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
 2021.01.11 17:26:36 +08'00'		 数字签名者: 张鸿生 DN: cn=张鸿生, o, ou, email=978425630@qq.com, c=<无 日期: 2021.01.11 17:28:00 +08'00'

Guangdong Done Power Technology Co.,Ltd

广东东菱电源科技有限公司

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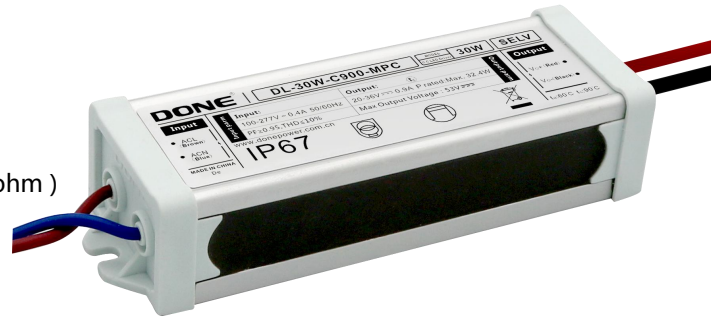
■ VERSION

DATE	CAUSES OF CHANGE	REV.	CHECK
2021.01.11	Initial version.	V1.0	数字签名者: 张鸿生 DN: cn=张鸿生, o, ou, email=978425630@qq.com, c=<<无 日期: 2021.01.11 17:28:16 +08'00' 

 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	Product type	DONE WATERPROOF LED DRIVER		
	Product series	DL-30W-MPC	REV.	1.0

FEATURES

- ◇ Class II structure
- ◇ Input Voltage:100-277V ~ 50/60Hz
- ◇ Input 230Vac, full load output, Eff. > 87%
- ◇ Lightning surge : differential mode L-N Class II +/- 4 KV (2 ohm)
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


Outdoor household lighting. Outdoor commercial lighting.
Outdoor commercial lighting

MODEL LIST

Model	AC Input	Output Voltage	Output Current	Efficiency
				230Vac
DL-30W-C600-MPC	100-277~ 50/60Hz	25~50Vdc	600mA	> 87%
DL-30W-C750-MPC		20~42Vdc	750mA	
DL-30W-C900-MPC		20~36Vdc	900mA	

Remark :

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

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	Product series	DL-30W-MPC	REV.	1.0


■ SPECIFICATION

◇ INPUT

Input voltage range	90 - 305Vac
Frequency	47/63Hz
Power factor(PF)	$\geq 0.95 @ 230\text{Vac Full Load}$
Total harmonic distortion (THD)	$\leq 12\% @ 230\text{Vac Full Load}$
Input current	$I_{in} < 0.5\text{A} @ 100\text{Vac Full Load}$
Inrush current (typ.)	Cold start (25°C) < 70A @ 230Vac

◇ OUTPUT

Model	DL-30W-C600-MPC	DL-30W-C750-MPC	DL-30W-C900-MPC
Rated current	600mA	750mA	900mA
Current range	528~642mA	660~802mA	792~963mA
Output voltage range	25~50Vdc	20~42Vdc	20~36Vdc
Rated output power	30.0W	31.5W	32.4W
No load voltage	65VdcMAX	55VdcMAX	53VdcMAX
Efficiency(Typ.)	87% @ 230Vac Full Load		
Output current ripple (LED)	< 50%		
Accuracy off output current	$\pm 7\%$ remarks4)		
Line regulation	$\pm 3\%$		
Load regulation	$\pm 5\%$		
Setup time	< 1000ms @ 115Vac full load < 500ms @ 230Vac full load		

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◇ Protection

Over Load protection	Protection mode: hiccup restart mode, automatic recovery after removal of abnormal load 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:

- All specifications are tested at 230Vac (50Hz) , rated load, and Ta:25°C.
- Including setting error, linear adjustment rate and load adjustment rate.
- Constant current mode operates under rated output voltage of 50%~100%, suitable for LED and other related industries
- when the input voltage of DL-30W-C600/750/900-MPC is 100-120VAC, the accuracy of output current is-12% to 7%.

■ ENVIRONMENT

Working temperature	-40 ~ +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	100K hrs min. MIL-HDBK-217F (Ta=25°C)

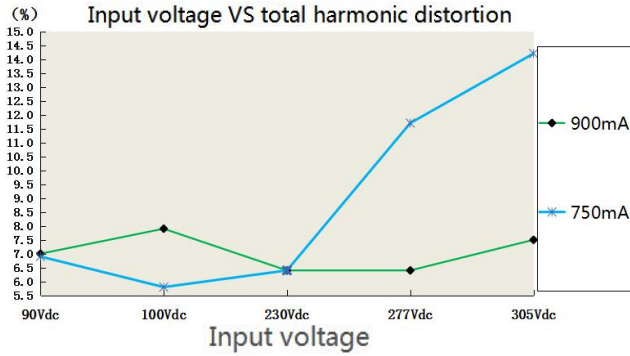
■ SAFETY & EMC

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

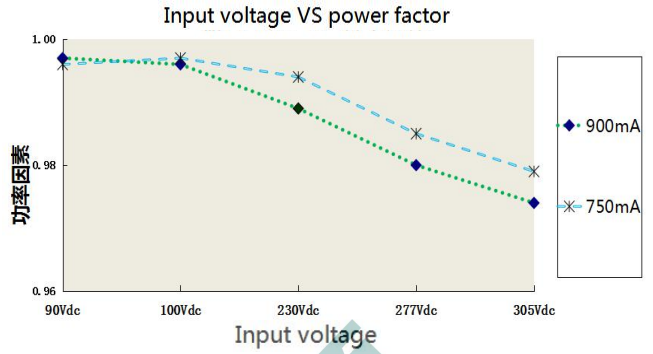
Remarks:

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.

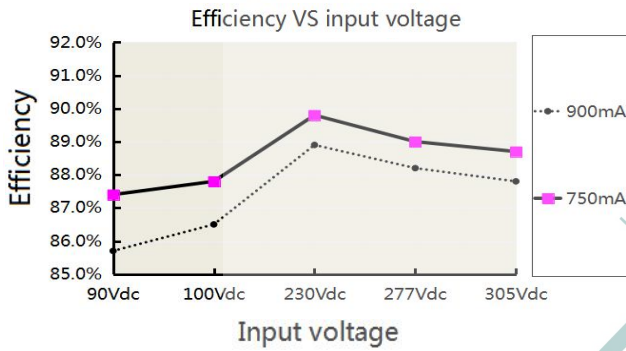
Input voltage VS total harmonic distortion



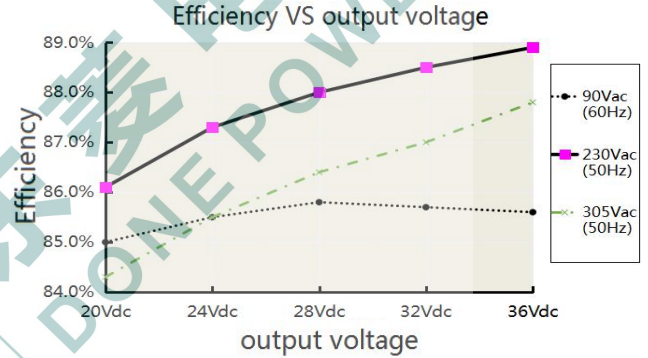
Input voltage VS power factor



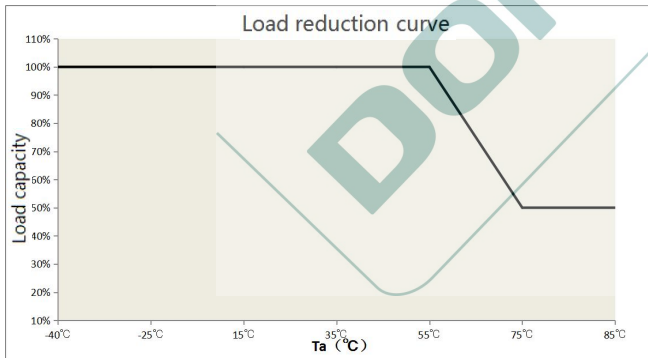
Efficiency VS input voltage



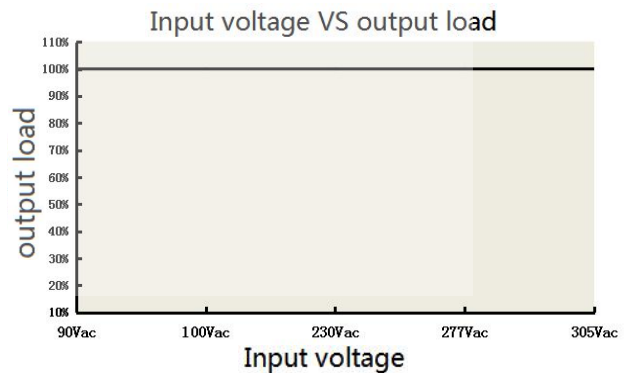
Efficiency VS output voltage (DL-30W-C900-MPC)



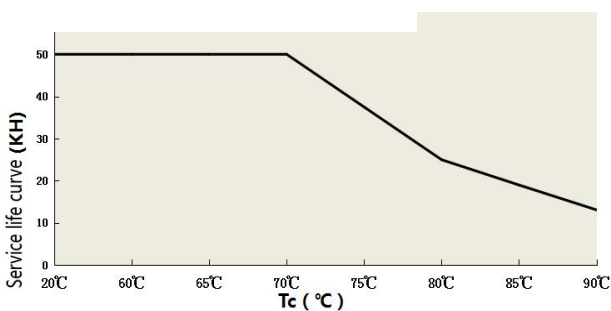
Load reduction curve



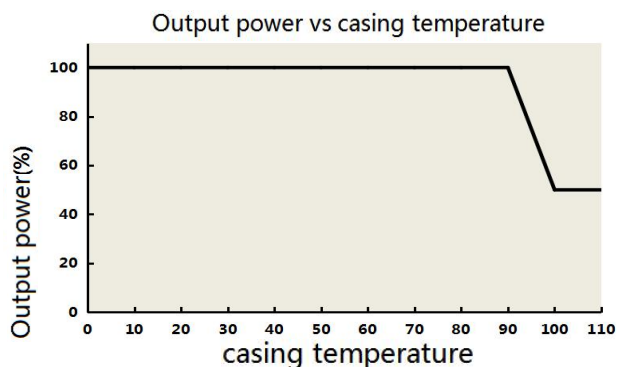
Input voltage VS output load



Service life curve



Output power vs casing temperature

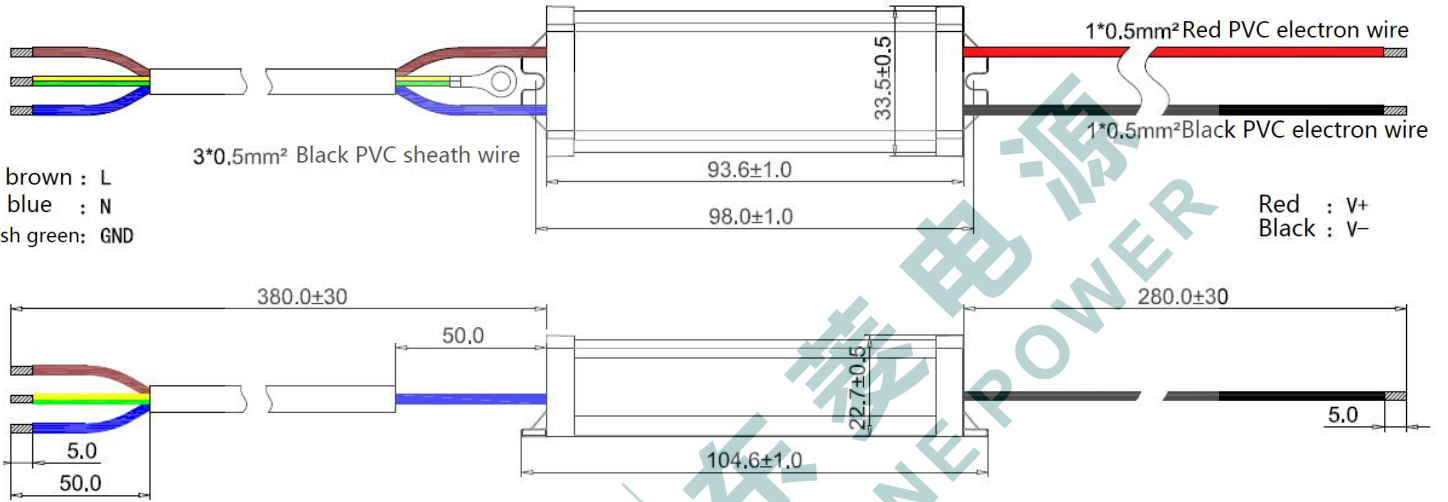


MACHINE SIZE MAP

Size (mm)	L104.6*W33.5*H22.7
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Case model : 2M09A

unit:mm



WEIGHT

Weight	128g
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