



Product type	DL LED Indoor Driver		
Product series	DL-30H-MPC Series	REV	1.0

Zhongshan Done Lighting Technology Co.,Ltd.

Customer Acknowledgment

Customer Name:	
Product Model:	DL-30H-MPC
Version	V1.0
Datelanded:	

Customer Confirmation Bar

Check	Audit	Approve
Customer remark		

Please resent this acknowledgment to DL after you confirm and signature

DL Confirmation Bar

Check	Audit	Approve

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■ Features

- ◇ Class I type for insulation(pending)
- ◇ Input voltage:200 - 277V ~ 50/60Hz
- ◇ Input voltage 230Vac,output full load,the efficiency for89%
- ◇ Surge level for differential mode: L-N Class II +/- 4KV(2 ohm)
 Refer to IEC61000-4-5 2014
- ◇ Pass the dual 85 test for 15 days @230Vac for full load
- ◇ LED driver withstand voltage can reach to 1500Vac last 60s for I/P-O/P
- ◇ Guaranteed Lifetime : 3 years



■ Applications

Street lighting、Flood lighting、Wall washer lighting

■ Model NO.

Model NO.	Input voltage	Output voltage	The default current	Eff.		THD	PF
				115Vac	230Vac	230Vac	230Vac
DL-30H-C270-MPC	200-277~ 50/60Hz	60~135Vdc	270mA	/	>89%	≤10%	≥0.95
DL-30H-C300-MPC	200-277~ 50/60Hz	60~135Vdc	300mA	/	>89%	≤10%	≥0.95

Note :

Test conditions of the above parameters: Ta=25℃ , 230Vac input, full load operation for 30 minutes;

■ Electrical specifications

◇ Input characteristics

Rated input voltage	180-305Vac
Rated frequency	47Hz/63Hz
Power factor	≥ 0.95 @230Vac Full load
T.H.D.	$\leq 10\%$ @230Vac Full load
Input current	0.27A Max
Inrush current	Cold Start 70A @230Vac cold start (25°C) 70A /230Vac

◇ Output characteristic

Model	DL-30H-C270-MPC	DL-30H-C300-MPC
Rated current	270mA	300mA
Output current range	256.5~283.5	285~315mA
Output voltage range	60~135Vdc	60~135Vdc
Rated power	36.5W	40.5W
No-load voltage	160VdcMAX	160VdcMAX
Efficiency	89%@230Vac Full load	89%@230Vac Full load
Accuracy of output current	$\pm 5\%$ 注4)	$\pm 5\%$ 注4)
Line regulation	$\pm 5\%$	$\pm 5\%$
Load regulation	$\pm 5\%$	$\pm 5\%$
Starting time	<500ms @230Vac full load	

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◇ Protection

Output overload protection	Protection mode: hiccup mode, recovers automatically after fault condition is removed.
Output short circuit protection	Hiccup mode: recovers automatically after fault condition is removed
Input under-voltage protection	Protection mode: Input voltage less than 180Vac, DL-30H-C300/270-MPC will enter under-voltage protection (Hiccup mode)

NOTE :

1. Unless otherwise specified, all parameters should be measured at the condition of 230Vac (50Hz) input, with rated load, and ambient temperature of 25°C.
2. Including setting error, line regulation and load regulation.
3. The constant current mode will work in 50%~100% rated output voltage, it suits for LED etc. related industry.
4. The output current accuracy at $\pm 7\%$ when DL-30H-MPC driver output voltage is DC 60-90V.

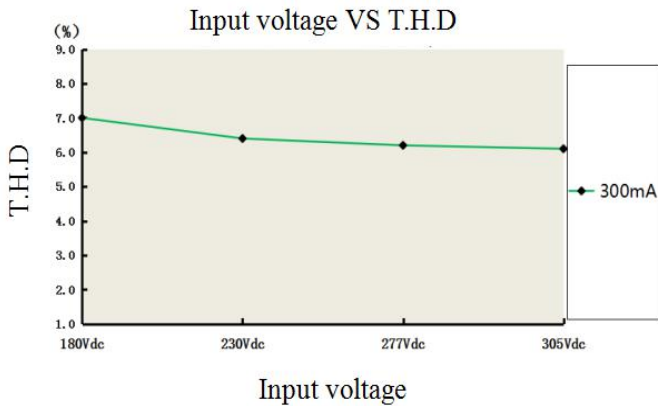
■ Environmental

Working temperature	-40 ~ +60°C (Refer to "service life curve ")	
Working humidity	20 ~ 95% RH, non condensing	
Storage temperature, humidity	-30 ~ +85°C, 10 ~ 90% RH	
Resistant to vibration	10 ~ 500Hz, 5G 12 min/cycle, X, Y, Z axis 72 min each	
High-pot test	I/P-O/P: 1.5KVAC	
Insulation impedance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH	
MTBF	100K hrs min.	MIL-HDBK-217F (25°C)

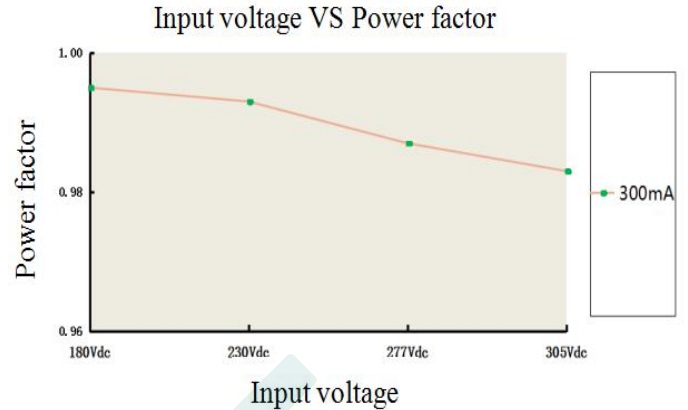
■ Safety and EMC

Safety	/
EMC	/
Surge protection	Differential mode L-N Class II +/- 4KV (2 ohm) (IEC61000-4-5 2014)
Leakage current	<0.7mA

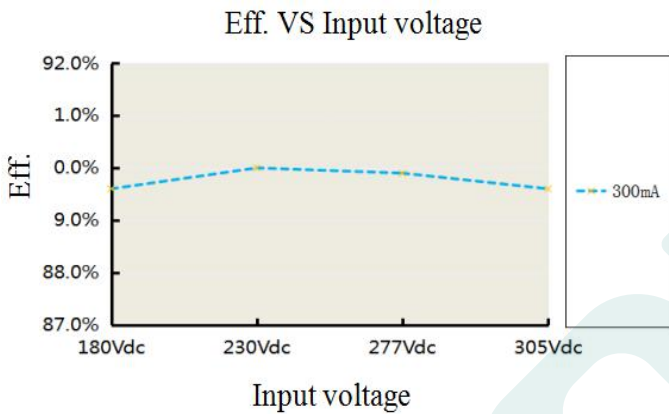
■ Input voltage VS T. H. D.



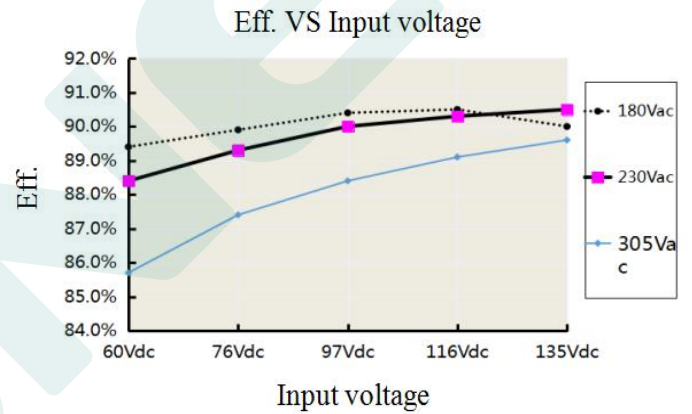
■ Power factor VS Input voltage



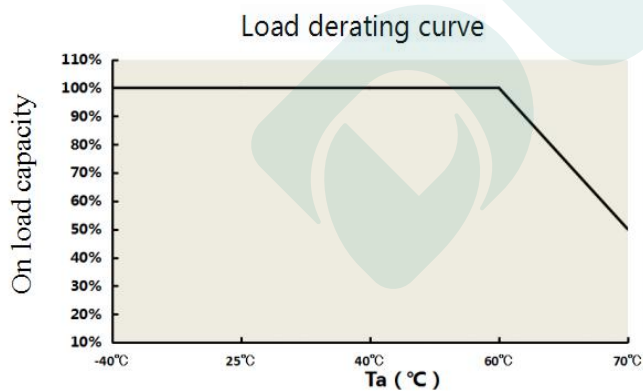
■ Eff. VS Input voltage



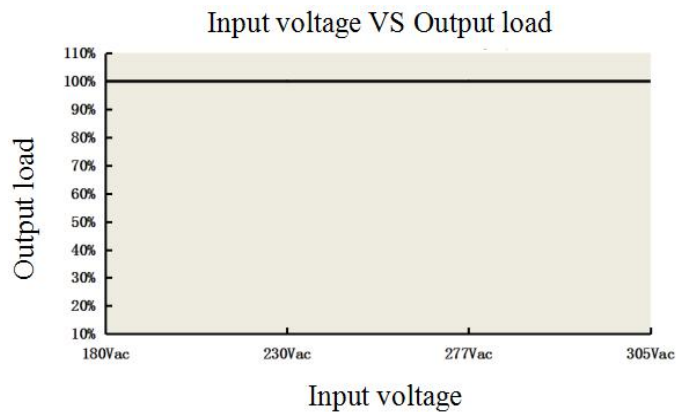
■ Eff. VS Output voltage (DL-30W-C900-MPC)



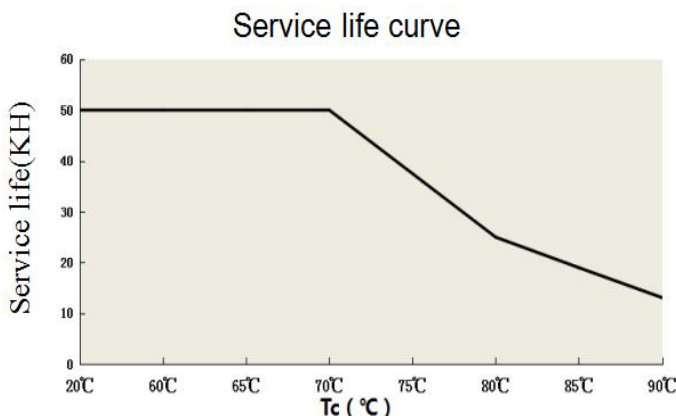
■ Load derating curve



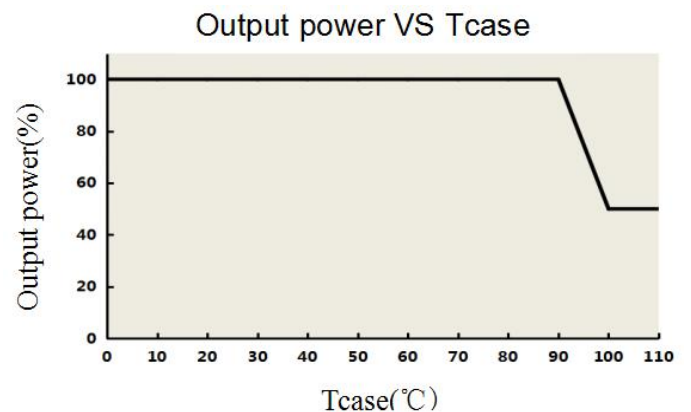
■ Input voltage VS Output load



■ Service life curve



■ Output power VS Tcase



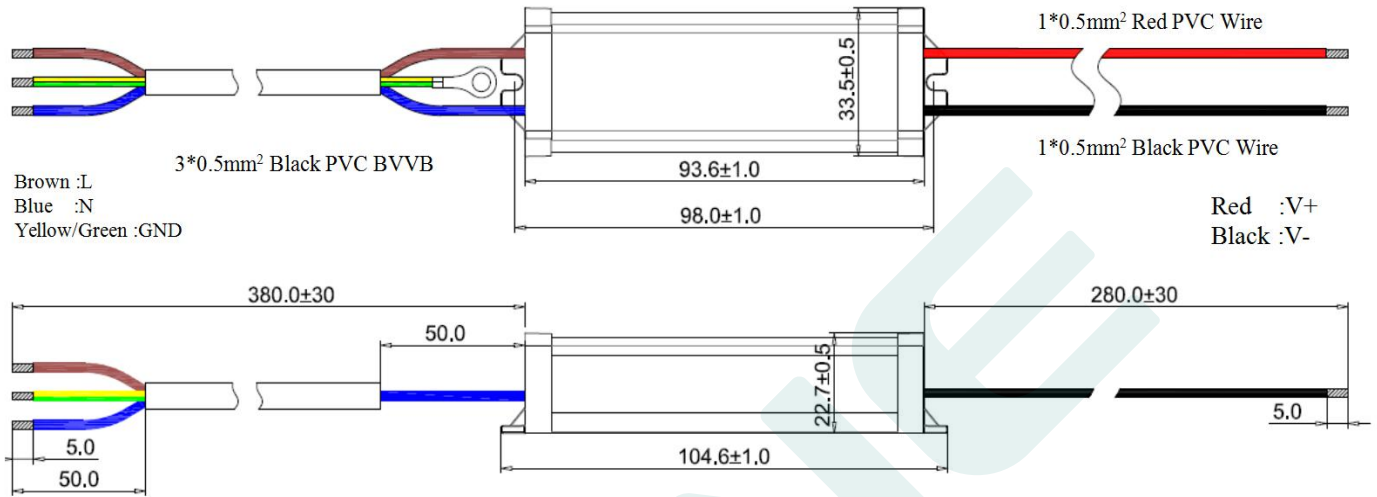
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■ Mechanical Specification

size (mm)	104.6*33.5*22.7
packaging	/

Case No. : 2M09A

Unit:mm



■ Weight

Weight	125g
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