

## 广东东菱电源科技有限公司

Guangdong Done Power Technology Co.,Ltd.

### SPECIFICATION

CUSTOMER :		
MODEL NO. :	DL-40H-LAC	
VERSION:	V1.1	
CUSTOMER		
TEST	CHECK	APPROVE
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		



## FEATURES

- ◇ Class II diver
- ◇ AC input: 220-240V ~ 50/60Hz
- ◇ PF > 0.95 & THD < 12% full load
- ◇ High efficiency /High reliability
- ◇ Surge : 1 KV ( 2 ohm ) IEC61000-4-5 2014
- ◇ CCC/TUV/CE/SAA approved
- ◇ 5 years warranty



## TYPICAL APPLICATIONS

Commercial lighting , Household lighting



## MODEL LIST

Model	AC Input	Output voltage	Output current	Efficiency	THD	PF
				230Vac	230Vac	230Vac
DL-40H-C1050-LAC	220-240Vac	25-40Vdc	1050mA	>89%	≤12%	≥0.95
DL-40H-C1000-LAC	220-240Vac	25-42Vdc	1000mA	>89%	≤12%	≥0.95
DL-40H-C950-LAC	220-240Vac	25-42Vdc	950mA	>89%	≤12%	≥0.95
DL-40H-C900-LAC	220-240Vac	25-42Vdc	900mA	>89%	≤12%	≥0.95
DL-40H-C850-LAC	220-240Vac	25-42Vdc	850mA	>89%	≤12%	≥0.95

Note: The above test is measured after half an hour of power supply.

## ■ SPECIFICATION

### ◇ INPUT

Rated voltage	220 -240Vac
Frequency	50/60Hz
Power factor(PF)	>0.95 @230Vac full load
Total harmonic distortion(THD)	≤12%@230Vac full load
Input current	0.26A @230Vac
Inrush current (typ.)	Cold start 100A @230Vac

### ◇ OUTPUT

Model	DL-40H-C1050-LAC	DL-40H-C1000-LAC	DL-40H-C950-LAC	DL-40H-C900-LAC	DL-40H-C850-LAC
Rated current	1050mA	1000mA	950mA	900mA	850mA
Output current range	997-1102mA	950-1050mA	902-998mA	855-945mA	807-893mA
Output voltage range	25-40Vdc	25-42Vdc	25-42Vdc	25-42Vdc	25-42Vdc
Rated output power	42W	42W	39.9W	37.8W	35.7W
No load voltage	55Vdc MAX.	55Vdc MAX.	55Vdc MAX.	55Vdc MAX.	55Vdc MAX.
Efficiency	>89%@230Vac 满载	>89%@230Vac 满载	>89%@230Vac 满载	>89%@230Vac 满载	>89%@230Vac 满载
Accuracy off output current	±5%	±5%	±5%	±5%	±5%
Line regulation	±5%				
Load regulation	±5%				
Setup time	<500ms @230VAC				
Stroboscopic coefficient	No stroboscopic(Ripple coefficient ≤3%)				

◇ PROTECTION

Over load	Non-latching : Constant current limiting, recovers automatically after fault condition is removed
Short	Hiccup and non-latching, recover automatically after fault condition is removed
Over voltage	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

NOTE :

- 1) All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2) Tolerance : includes set up tolerance, line regulation and load regulation.
- 3) Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications.

■ ENVIRONMENT

WORKING TEMP.	-25 ~ +50°C (Refer to "Derating Curve")
WORKING HUMIDITY	20 ~ 95% RH, non-condensing
STORAGE TEMP, HUMIDITY	-25 ~ +80°C, 10 ~ 95% RH
VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC
ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH
MTBF	470K hrs min. MIL-HDBK-217F (25°C)

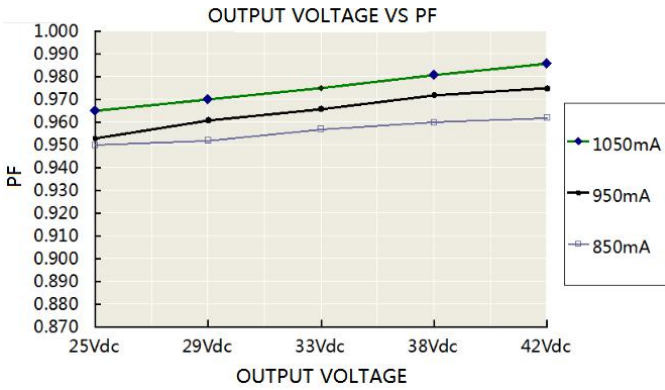
■ SAFETY & EMC

SAFETY	GB19510.1, GB19510.14, EN61347-1, IEC61347-1, EN61347-2-13, IEC61347-2-13, AS/NZS 61347.1, AS 61347.2.13
EMC	EMI : GB 17743, EN 55015, EN 61000-3-2 , EMS : EN 61000-3-3 EN 61000-4-2, EN 61000-4-3, EN61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8,
SUGER	IEC61000-4-5 2014 1 KV
LEAKAGE CURRENT	<0.7mA / 230Vac

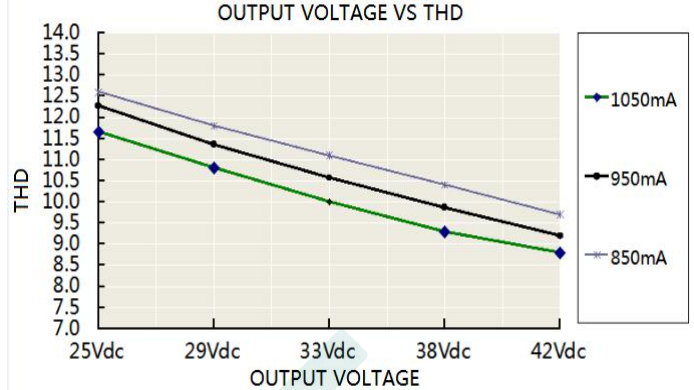
NOTE :

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.

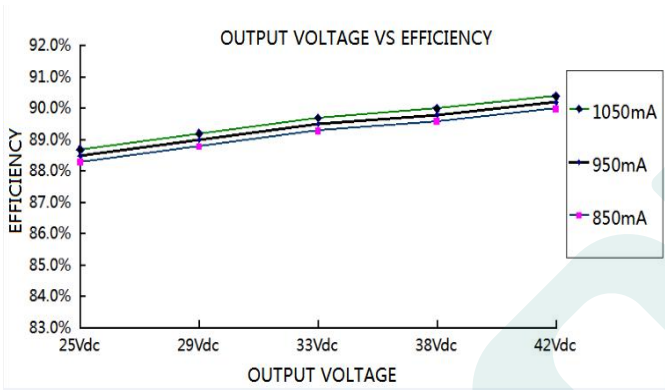
### OUTPUT VOLTAGE VS PF



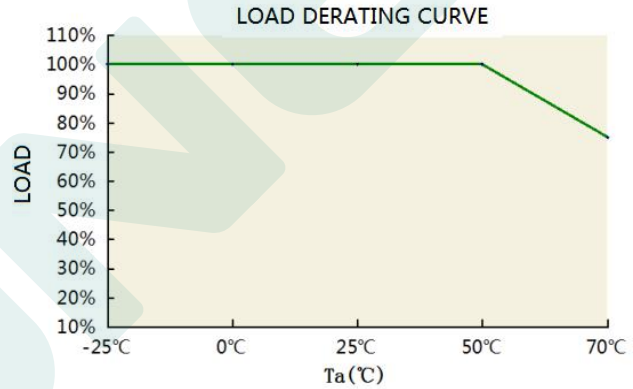
### OUTPUT VOLTAGE VS THD



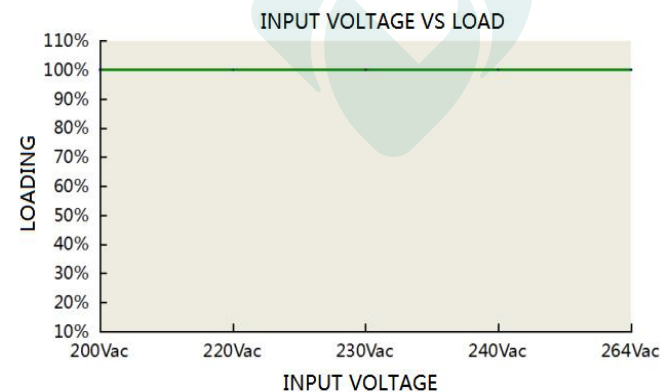
### OUTPUT VOLTAGE VS EFFICIENCY



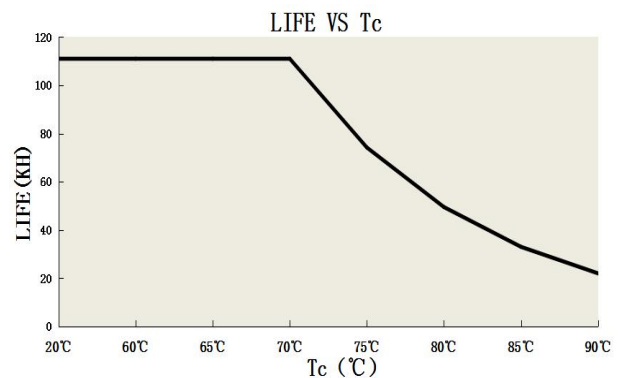
### LOAD DERATING CURVE



### INPUT VOLTAGE VS LOAD



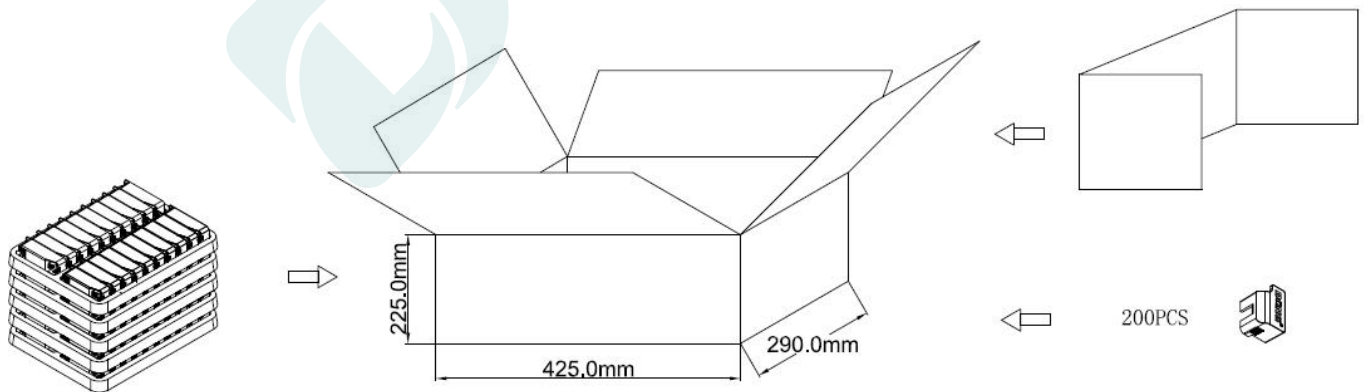
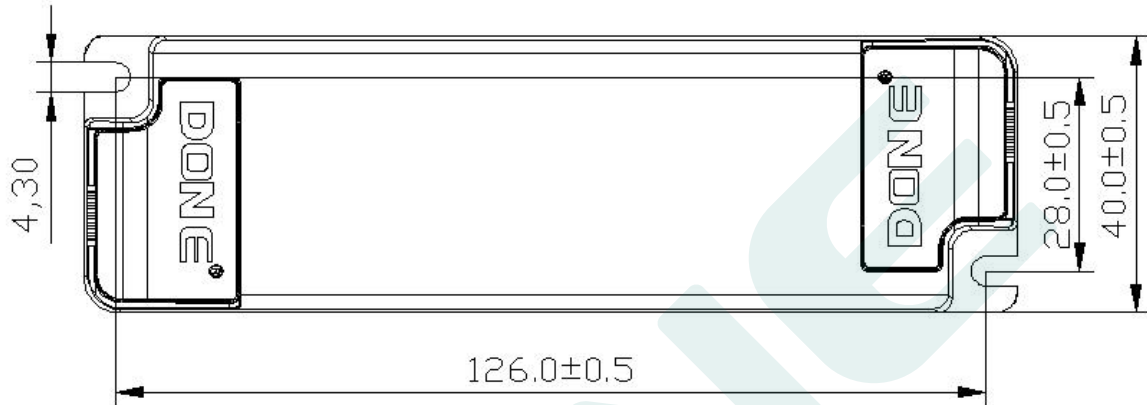
### LIFE VS Tc



MECHANICAL SPECIFICATION & PACKING :

DIMENSION ( mm )	135*40*25mm
PACKING	/

机壳型号： FP04 单位:mm



Note: one box has 5 layers,  
 each layer has 20 PCs

WEIGHT

Weight	113g/PCS
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