



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 室内驱动电源 DONE LED INTEGRATED SPECIAL DRIVER

产品系列

DL-20H-LAB

REV

1. 1

广东东菱电源科技有限公司

客户承认书

Guangdong Done Power Technology Co.,Ltd.

SPECIFICATION

CUSTOMER :		
MODEL NO. :	DL-20H-LAB	
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
<p>Guangdong Done Power Technology Co.,Ltd 广东东菱电源科技有限公司</p> <p>No. 3-1&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 driver
- ◇ AC input: 220-240V ~ 50/60Hz
- ◇ The input is 220Vac, the output is full, and the efficiency can be up to 86%
- ◇ PF > 0.95 & THD < 12% full load
- ◇ The level of lightning surge is differential mode L-N Class II + /-1 KV (2 ohm). Refer to 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-20H-C550-LAB	220-240Vac 50/60Hz	25~40Vdc	550mA	>86%	< 12%	> 0.95
DL-20H-C500-LAB	220-240Vac 50/60Hz	25~42Vdc	500mA	>86%	< 12%	>0.95
DL-20H-C450-LAB	220-240Vac 50/60Hz	25~42Vdc	450mA	>86%	< 12%	>0.95
DL-20H-C400-LAB	220-240Vac 50/60Hz	25~42Vdc	400mA	>86%	< 12%	>0.95
DL-20H-C350-LAB	220-240Vac 50/60Hz	25~42Vdc	350mA	>86%	< 12%	>0.9
DL-20H-C300-LAB	220-240Vac 50/60Hz	25~42Vdc	300mA	>86%	< 12%	>0.9
DL-20H-C270-LAB	220-240Vac 50/60Hz	25~42Vdc	270mA	>86%	< 12%	>0.9
DL-20H-C250-LAB	220-240Vac 50/60Hz	25~42Vdc	250mA	>86%	< 12%	>0.9

Note: the above parameters are measured at: Ta=25 °C, 230Vac input, working at full load for 30 minutes.

 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 室内驱动电源 DONE LED INTEGRATED SPECIAL DRIVER		
	产品系列	DL-20H-LAB	REV	1. 1

■ SPECIFICATION

◇ INPUT

Rated voltage	220 -240Vac
Voltage range	200 - 264Vac
Rated frequency	50/60Hz
Power factor(PF)	>0.95 @230Vac full load
Total harmonic distortion(THD)	<12%@230Vac full load
Input current	0.13A @230Vac
Inrush current (typ.)	Cold start 70A @230Vac

◇ OUTPUT

Model	DL-20H-C550-LAB	DL-20H-C500-LAB	DL-20H-C450-LAB	DL-20H-C400-LAB	DL-20H-C350-LAB	DL-20H-C300-LAB	DL-20H-C270-LAB	DL-20H-C250-LAB
Rated current	550mA	500mA	450mA	400mA	350mA	300mA	270mA	250mA
Output current range	522-578mA	475-525mA	427.5-472.5 mA	380-420mA	325.5-374.5 mA	279-321mA	251.1-288.9mA	232.5-267.5 mA
Output voltage range	25~40Vdc	25~42Vdc	25~42Vdc	25~42Vdc	25~42Vdc	25~42Vdc	25~42Vdc	25~42Vdc
Rated output power	22W	21W	18.9W	16.8W	14.7W	12.6W	11.34W	10.5W
No load voltage	≤51V	≤51V	≤51V	≤51V	≤51V	≤51V	≤51V	≤51V
Efficiency	86%@230Vac full load	86%@230Vac full load	86%@230Vac full load	86%@230Vac full load	86%@230Vac full load	86%@230Vac full load	86%@230Vac full load	86%@230Vac full load
Accuracy off output current	±5%	±5%	±5%	±5%	±7%	±7%	±7%	±7%
Line regulation	±5%	±5%	±5%	±5%	±5%	±5%	±5%	±5%
Load regulation	±5%	±5%	±5%	±5%	±5%	±5%	±5%	±5%
Setup time	<500mS 230Vac full load	<500mS 230Vac full load	<500mS 230Vac full load	<500mS 230Vac full load	<500mS 230Vac full load	<500mS 230Vac full load	<500mS 230Vac full load	<500mS 230Vac full load
Stroboscopic coefficient	<5%Io @220-240Vac							

◇ 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	150K hrs min. MIL-HDBK-217F (25°C)

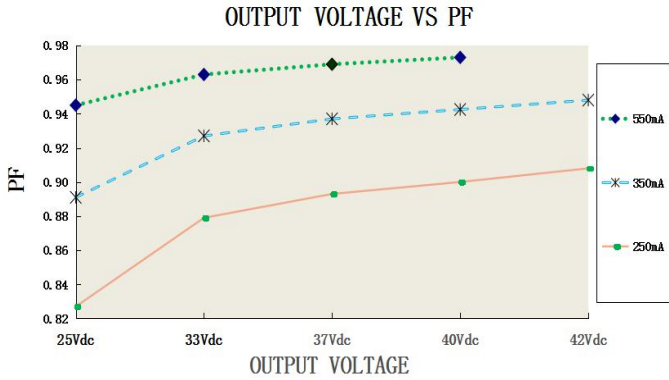
■ SAFETY & EMC

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	The level of lightning surge is differential mode.L-N Class II +/- 1 KV (2 ohm) (IEC61000-4-5 2014)
LEAKAGE CURRENT	<0.7mA / 230Vac

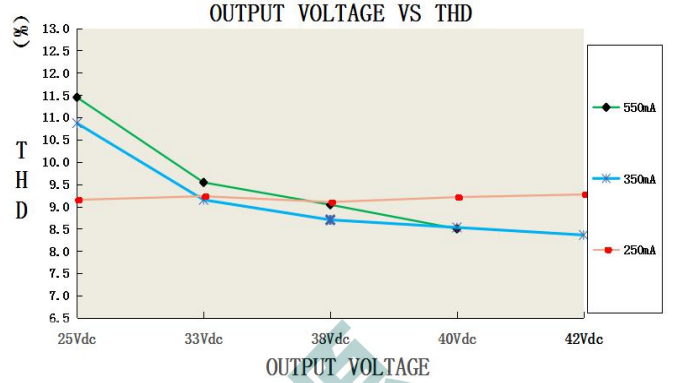
NOTE :

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.

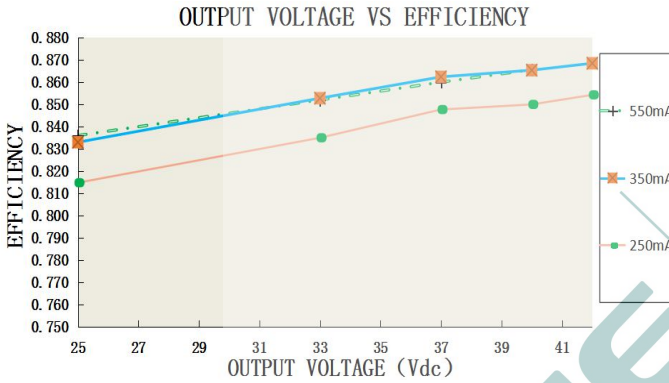
OUTPUT VOLTAGE VS PF



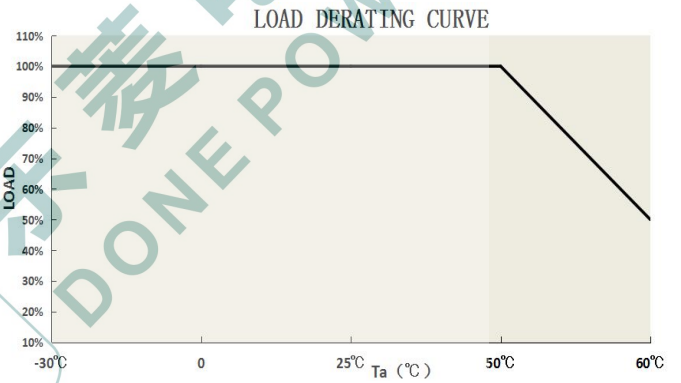
OUTPUT VOLTAGE VS THD



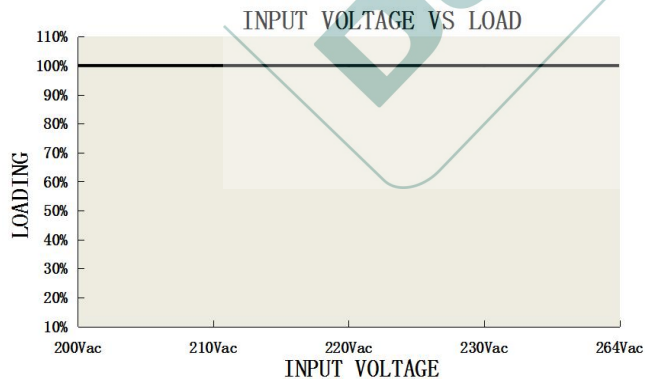
OUTPUT VOLTAGE VS EFFICIENCY



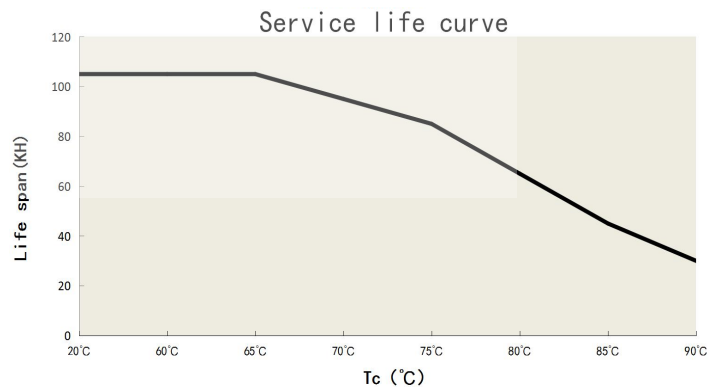
LOAD DERATING CURVE



INPUT VOLTAGE VS LOAD



LIFE VS Tc

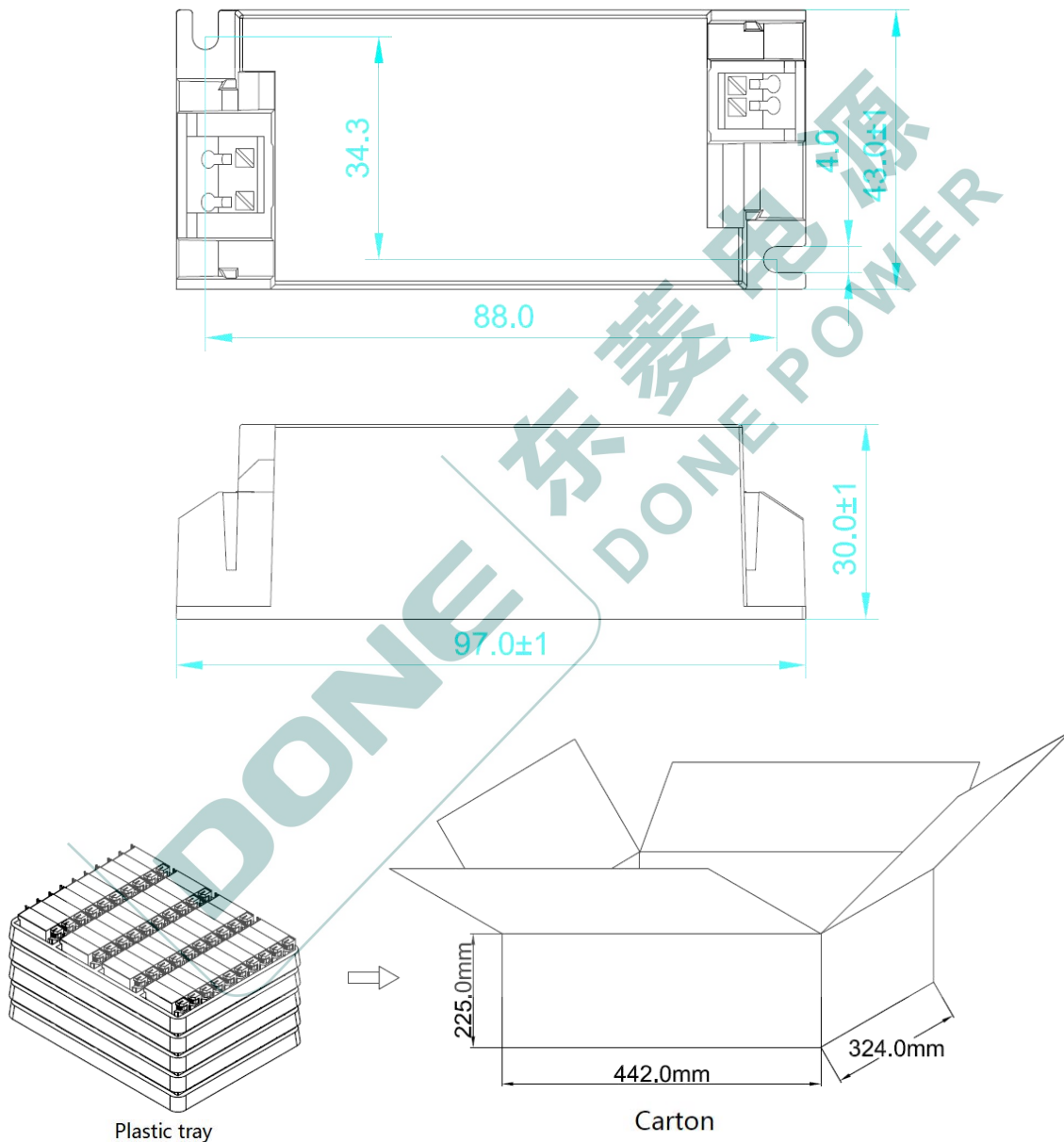


MECHANICAL SPECIFICATION & PACKING :

DIMENSION (mm)	97*43*30
PACKING	/

Housing model : FG01

Unit:mm



Note: a box of 5 floors, each floor 40PCS

WEIGHT

Weight	60g/PCS
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