 <b>GUANGDONG DONE POWER TECHNOLOGY CO.,LTD</b> <small>Service hotline: 400 0760 585 Website: www.donepower.com.cn</small>	Application	DONE WATERPROOF LED DRIVER		
	Product Line	DL-20W-MCC	REV.	1.0

**Guangdong DonePower Technology Co., Ltd.**

**SPECIFICATION**

CUSTOMER	
MODEL NO.	DL-20W-MCC
VERSION	V1.0

**CUSTOMER**

TEST	CHECK	APPROVE

CUSTOMER REMARKS


Please return to us one copy of "SPECIFICATION FOR APPROVAL" with you approved signature.

**MANUFACTRUE**

EDIT	CHECK	APPROVE

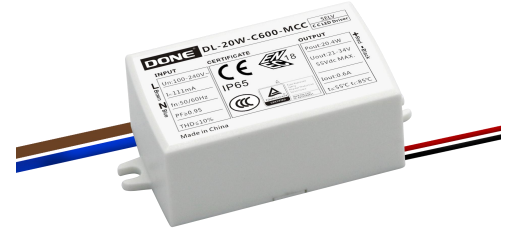
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## ■ FEATURES

- ◇ Class II structure
- ◇ Input Voltage:100-240V ~ 50/60Hz
- ◇ Input 230Vac, full load output, maximum efficiency up to 88%
- ◇ PF > 0.95 & THD < 10%
- ◇ Lightning surge : differential mode L-N Class II +/- 2 KV ( 2 ohm ) 2kV refer to IEC61000-4-5 2014
- ◇ With CCC, TUV, CE, SAA certification
- ◇ Long life design , 5 years warranty
- ◇ Internal glue , level of protection : IP65



## ■ TYPICAL APPLICATIONS

Indoor household lighting. Indoor commercial lighting.

Outdoor commercial lighting




## ■ MODEL LIST

Model	AC Input	Output power	Output voltage	Output current	Efficiency (Typ.)	THD	PF
DL-20W-C300-MCC	100-240V 50/60Hz	20.4W	36-68Vdc	0.3A	>86%	<10%	>0.95
DL-20W-C350-MCC	100-240V 50/60Hz	20.3W	36-58Vdc	0.35A	>86%	<10%	>0.95
DL-20W-C400-MCC	100-240V 50/60Hz	16.8W	21-42Vdc	0.4A	>86%	<10%	>0.9
DL-20W-C450-MCC	100-240V 50/60Hz	18.9W	21-42Vdc	0.45A	>86%	<10%	>0.95
DL-20W-C500-MCC	100-240V 50/60Hz	20.5W	21-41Vdc	0.5A	>85%	<10%	>0.95
DL-20W-C550-MCC	100-240V 50/60Hz	18.7W	21-34Vdc	0.55A	>86%	<10%	>0.95
DL-20W-C600-MCC	100-240V 50/60Hz	20.4W	21-34Vdc	0.6A	>85%	<10%	>0.95

### Remark :

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

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## ■ SPECIFICATION

### ◇ INPUT

Rated voltage	100 - 240Vac
Rated frequency	50/60Hz
Power factor(PF)	PF>0.95 @230Vac full load
Total harmonic distortion(THD)	THD<10% @230Vac full load
Input current	I <sub>in</sub> <0.28A @100Vac full load
Inrush current (Typ.)	Cold start (25°C)<70A @230Vac

### ◇ OUTPUT

Model	DL-20W-C300 -MCC	DL-20W-C350 -MCC	DL-20W-C400 -MCC	DL-20W-C450 -MCC	DL-20W-C500 -MCC	DL-20W-C550 -MCC	DL-20W-C600 -MCC
Rated current	300mA	350mA	400mA	450mA	500mA	550mA	600mA
Output voltage range	36~68Vdc	36-58Vdc	21-42Vdc	21~42Vdc	21~41Vdc	21~34Vdc	21~34Vdc
Rated output power	20.4W	20.3W	16.8W	18.9W	20.5W	18.7W	20.4W
No load voltage	85V MAX.	85V MAX.	60V MAX.	60V MAX.	60V MAX.	55V MAX.	55V MAX.
Efficiency (Typ.)	>86%	>86%	>86%	>86%	>85%	>86%	>85%
Accuracy off output current	±6%	±6%	±6%	±6%	±6%	±6%	±6%
Line regulation	±5%						
Load regulation	±5%						
Setup time	<500ms @ 230Vac						

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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:

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	-40 ~ +55°C (Refer to "Derating Curve")
Working humidity	20 ~ 95% RH,non-condensing
Storage temperature/humidity	-40 ~ +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:3.75KVAC
Insulation resistance	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH
MTBF	470K hrs min. MIL-HDBK-217F (Ta=25°C)

### ■ SAFETY & EMC

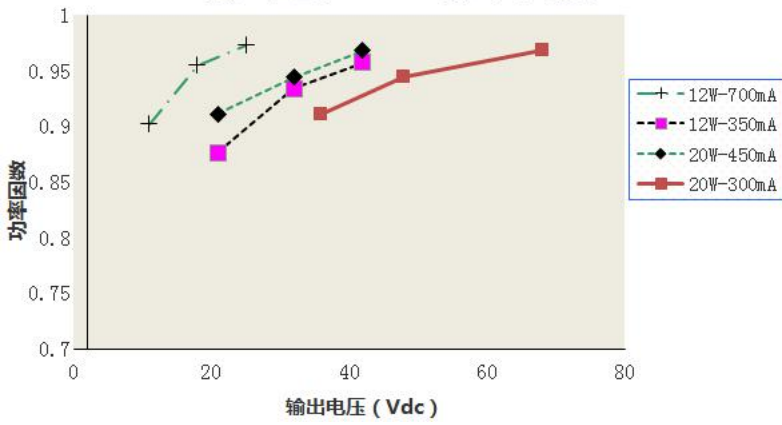
Safety	GB19510.1、GB19510.14、EN61347-1、EN61347-2-13、IEC61347-1、IEC61347-2-13、AS/NZS61347.1、AS/NZS61347.2.13 ; GB19510.1、GB19510.14、EN61347-1、EN61347-2-13、IEC61347-1、IEC61347-2-13、AS/NZS61347.1、AS/NZS61347.2.13 ;
EMC	EN 55015、EN 61000-3-2 、GB/T 17743、GB17625.1、 EN 61000-3-3
Surge level	difference module L-N Class II +/- 2 KV ( 2 ohm ) (IEC61000-4-5 2014)
Leakage current	<0.7mA / 230Vac

#### 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.

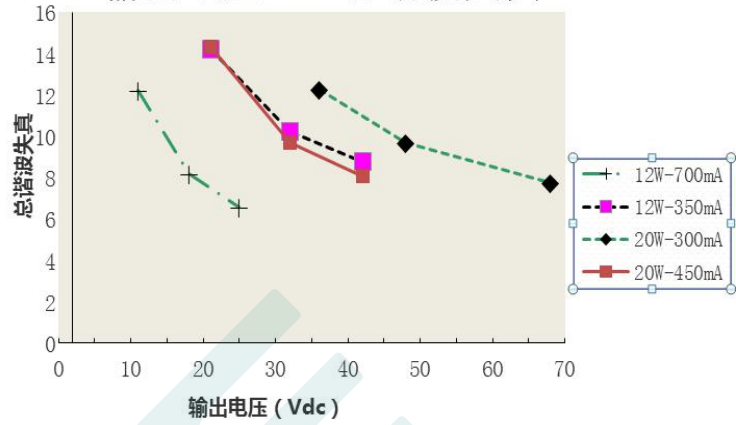
**Vout VS PF**

输出电压 VS 功率因数



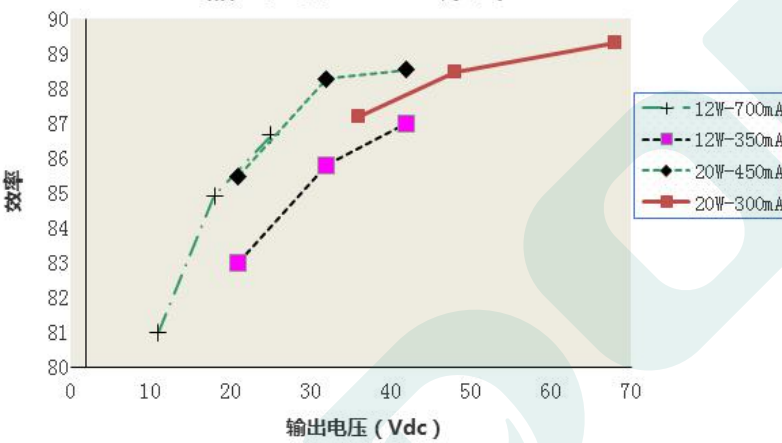
**Vout VS THD**

输出电压 VS 总谐波失真



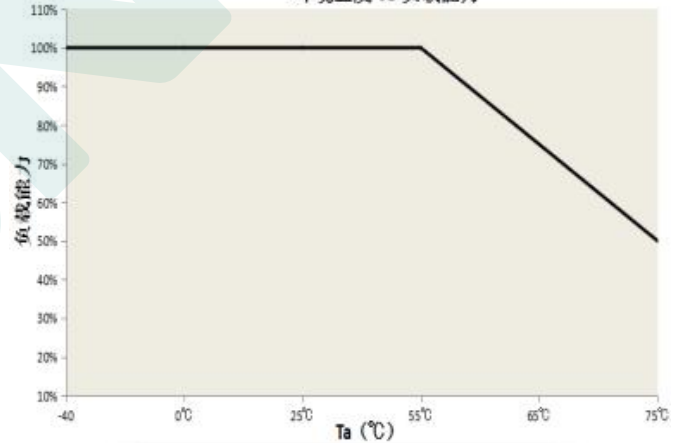
**Vout VS Efficiency**

输出电压 VS 效率



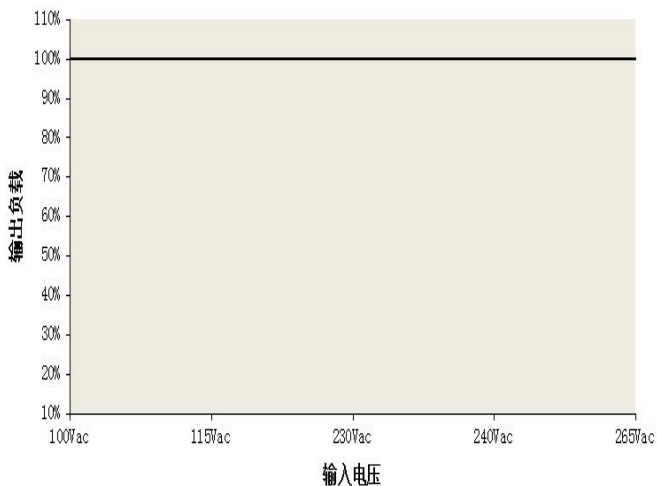
**Load reduction curve**

环境温度 VS 负载能力



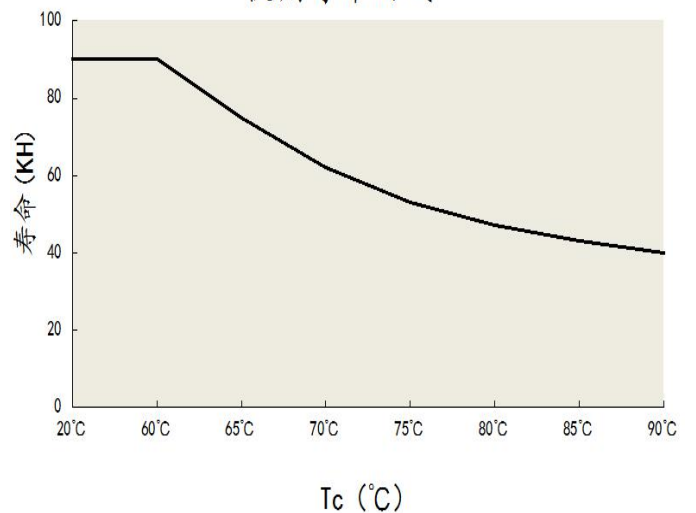
**Pout VS Vin**

输入电压 VS 输出负载



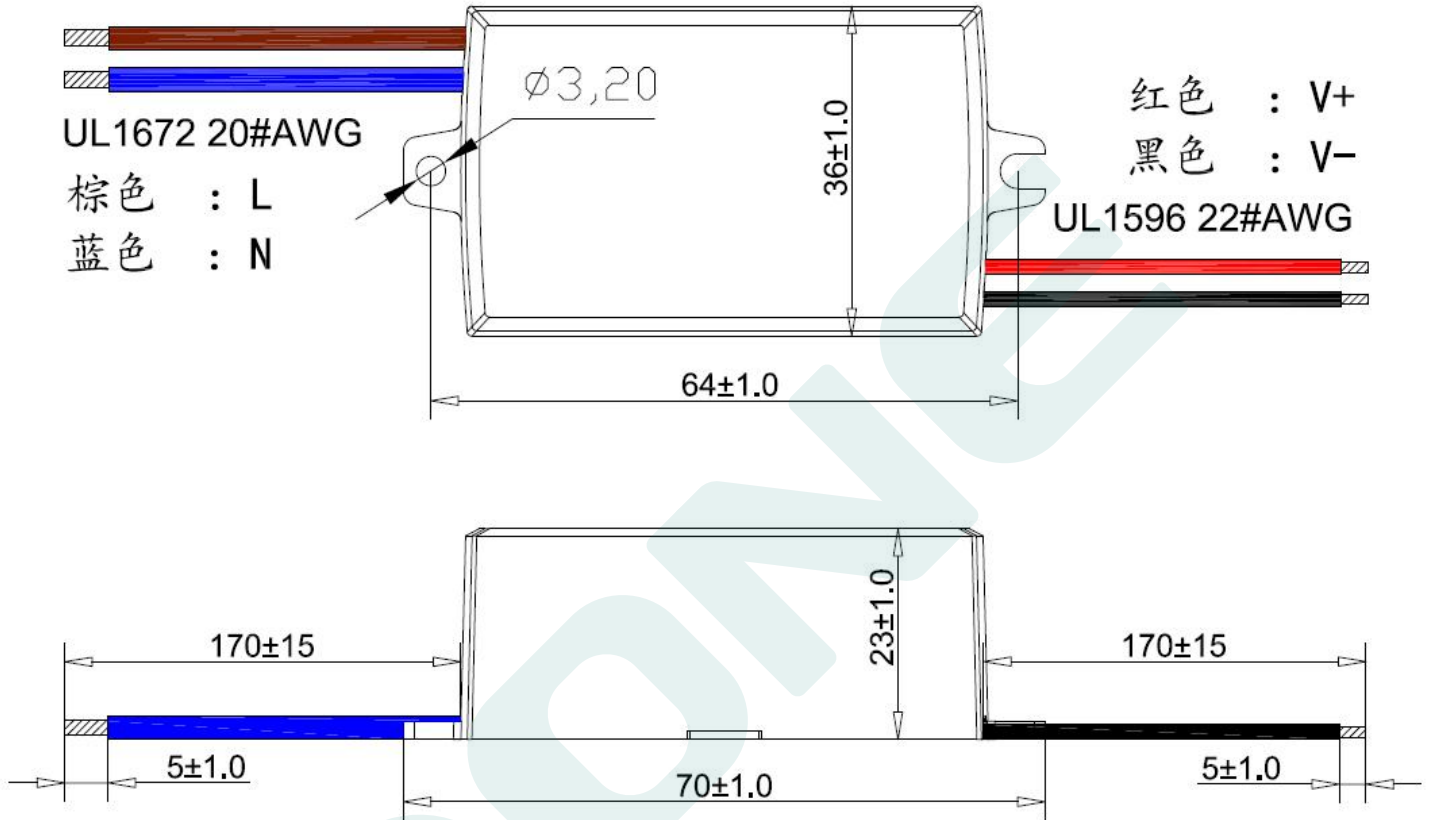
**Tc VS Life**

使用寿命曲线



■ MACHINE SIZE MAP:

Size ( mm )	L70xW36xH23mm
Pack	/



■ WEIGHT

Weight	82g
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Warn:

1. According to the certificate obtained by the power supply, the LED DRIVER with English label is applicable to luminaires sold in Europe, America and India;
2. The LED DRIVER with Chinese label is only used for luminaires sold to China.