

广东东菱电源科技有限公司

Guangdong Done Power Technology Co.,Ltd.

**SPECIFICATION**

CUSTOMER	
MODEL NO.	DL-20W-MPC
VERSION	V1.1
SAMPLE DATE	

CUSTOMER

EDIT	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:100-277V ~ 50/60Hz
- ◇ Input 230Vac, full load output, maximum efficiency up to 85%
- ◇ Lightning surge : differential mode L-N Class II +/- 2 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
- ◇ Long life design , 3 years warranty
- ◇ Internal glue , level of protection : IP67
- ◇ A Applied in: Street lamp, project-light lamp, wash wall lamp or other outdoor lamps and lanterns
- ◇ Hasthis product suitable for the Indian marker



## TYPICAL APPLICATIONS

Indoor household lighting. Indoor commercial lighting.

Outdoor commercial lighting

## MODEL LIST

Model	AC Input	Output voltage	Output current	Efficiency	
				115Vac	230Vac
DL-20W-C300-MPC	100~277Vac 50/60Hz	36-72Vdc	300mA	85%	86%
DL-20W-C400-MPC		21-42Vdc	400mA	84%	86%
DL-20W-C450-MPC		21-42Vdc	450mA	84%	86%
DL-20W-C500-MPC		21-42Vdc	500mA	84%	86%
DL-20W-C550-MPC		21-36Vdc	550mA	83%	85%
DL-20W-C600-MPC		21-36Vdc	600mA	83%	85%

### Remark :

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

## ■ SPECIFICATION

### ◇ Input Characteristics

Rated voltage	100 - 277Vac
THD	<15%@230Vac Full load
Frequency	50/60Hz
Power factor(PF)	≥0.95@230Vac Full load
Input current	Iin<0.45A @100Vac full load
Inrush current (typ.)	Cold start (25°C)<70A @230Vac

### ◇ Output Characteristics

Model	DL-20W-C300-MPC	DL-20W-C400-MPC	DL-20W-C450-MPC	DL-20W-C500-MPC	DL-20W-C550-MPC	DL-20W-C600-MPC
Rated current	300mA	400mA	450mA	500mA	550mA	600mA
current range	279-315mA	370~420mA	418-472mA	465~525mA	510~578mA	558-630mA
Output voltage range	36~72Vdc	21~42Vdc	21~42Vdc	21~42Vdc	21~36Vdc	21~36Vdc
Rated output power	21.6W	16.8W	18.9W	21W	19.8W	21.6W
No load voltage	≤100Vdc	≤60Vdc	≤60Vdc	≤60Vdc	≤50Vdc	≤50Vdc
Efficiency(Typ.)	>86%@230Vac Full Load	>86%@230Vac Full Load	>86%@230Vac Full Load	>86%@230Vac Full Load	>85%@230Vac Full Load	>85%@230Vac Full Load
Output current ripple ( LED )	<50% @230Vac Full Load					
Accuracy off output current	+5/-7%					
Line regulation	+5/-7%					
Load regulation	±5%					
Setup time	≤500ms @ 230Vac Full load& ≤1000ms @100Vac Full load					

### ◇ 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.
The input under voltage	/

#### 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	-30 ~ +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	470K hrs min. MIL-HDBK-217F (Ta=25°C)

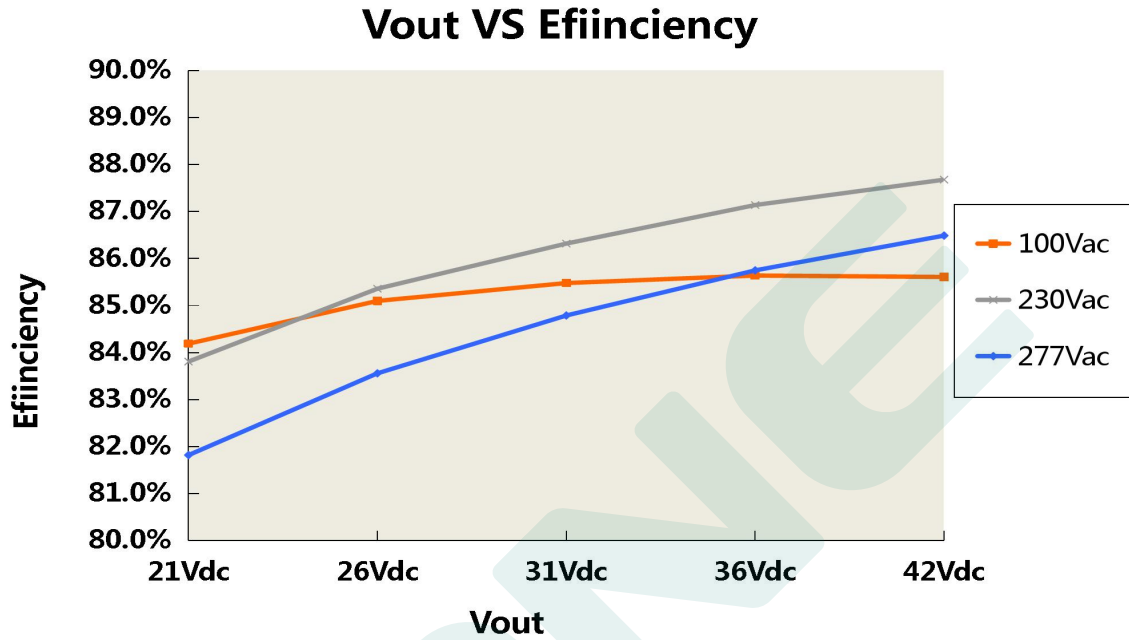
### ■ SAFETY & EMC

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

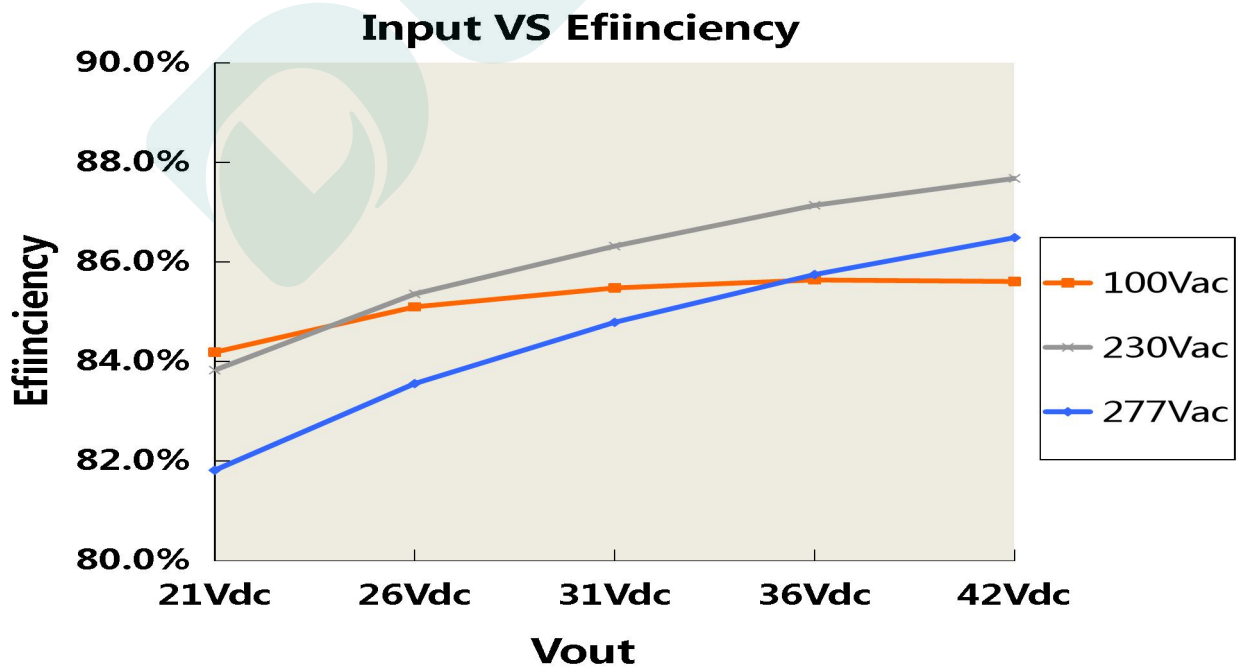
#### Remarks:

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.  
on the complete installation again.

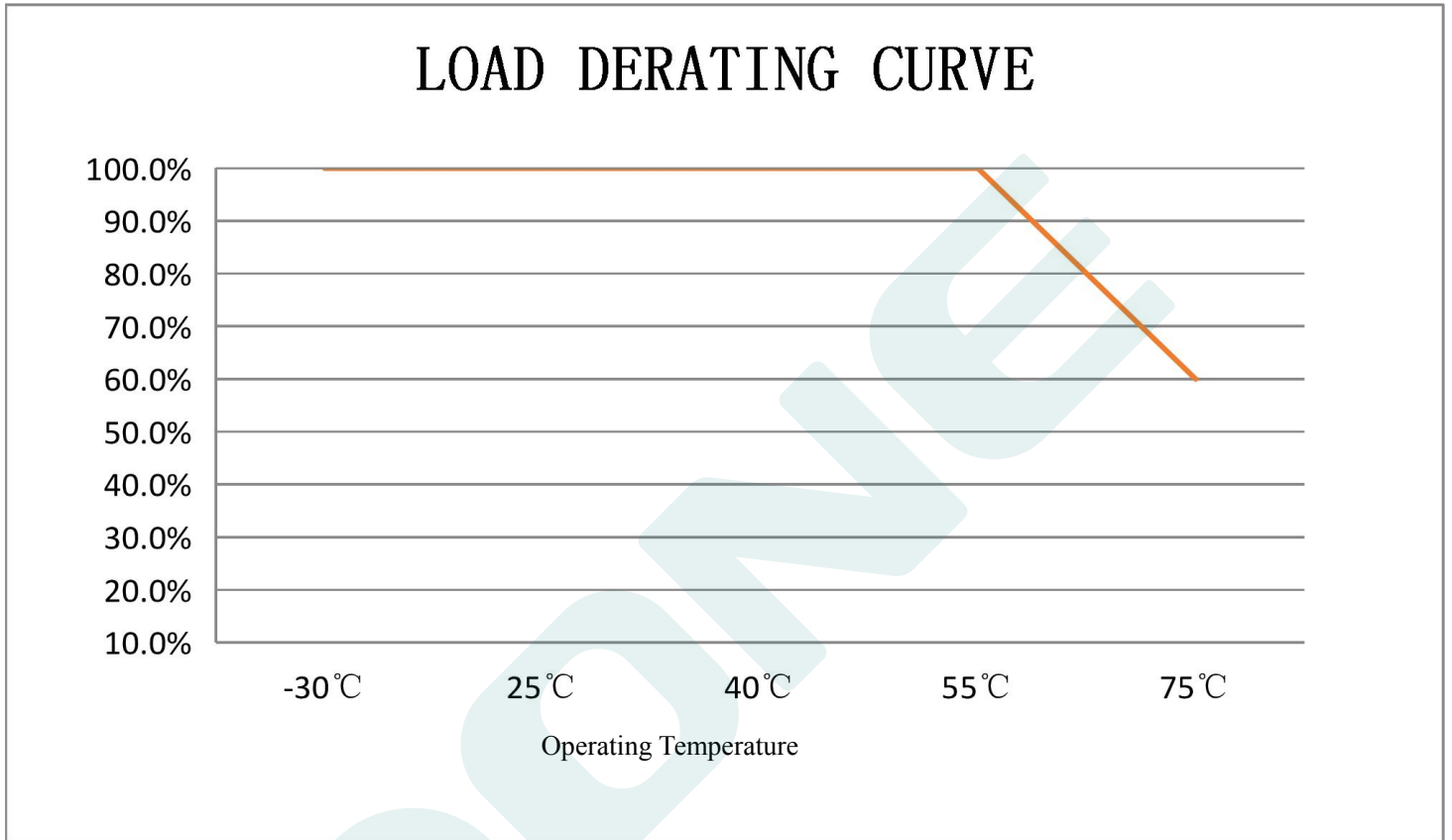
■ Vout VS Efficiency (DL-20W-C450-MPC)



■ Input VS Efficiency (DL-20W-C450-MPC)



■ LOAD DERATING CURVE (DL-20W-MPC)

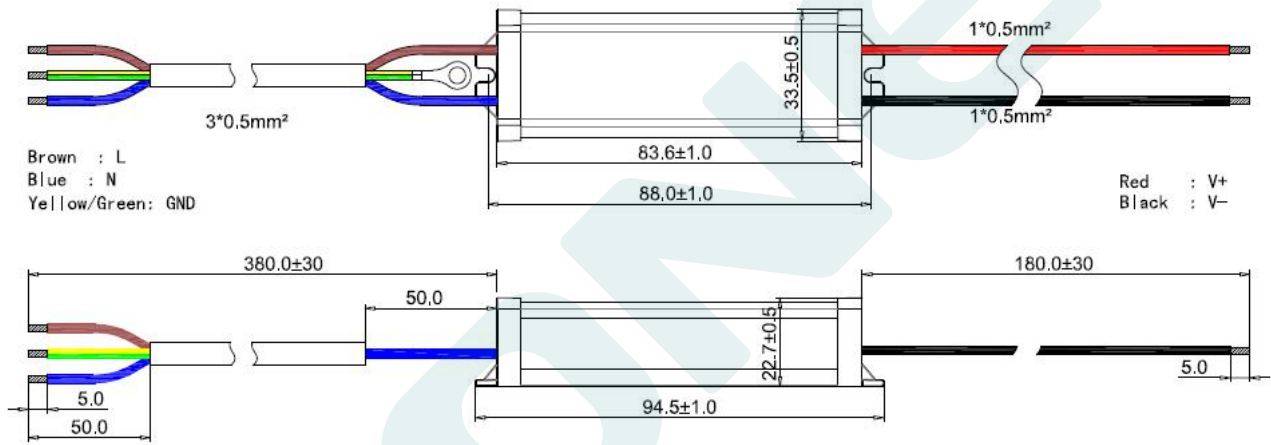


■ MACHINE SIZE MAP

Size ( mm )	L94. 5*W33. 5*H22. 7mm
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Case model : 2M10A

unit:mm



■ WEIGHT

Weight	115g
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