

## SPECIFICATIONS

### Product Features:

- ◆ Input Voltage Range:100~277VAC;
- ◆ High Power Factor;
- ◆ Efficiency Up to 92%;
- ◆ Meet UL8750 CB CE FCC SAA;
- ◆ International Protection:IP66;
- ◆ Dimming With 0-10V/PWM/VR;
- ◆ For Outdoor LED lights;
- ◆ Two-stage PFC, No flicker;
- ◆ 5 Years Warranty;



SELV



### Model List:

Model	Certification	Output Voltage	Output Current(Max)	Output Power(Max)	Efficiency
DF240W-42C5700B	UL/CUL/CB/CE/SAA/FCC	25-42V	5700mA	240W	92%
DF240W-42Cxxxxy xxxx are 4 digits from 50 to 5700, which indicates output current in mA. For example, 5700 represents output current 5700mA; y maybe A or B, where A indicates no dimming function, B indicates dimming function.					

### Revision History:

Change Date	Rev:	Before Change	After Change
2018/01/17	1.0	/	Datasheets Release



## DF240W Series LED Driver

Input: 100-277VAC High Power Factor High efficiency For high bay light IP66 UL CB CE

### Electrical Specifications:

#### 1. Input Specifications

Parameter	Notes	Min.	Typ.	Max.	Unit
Input Voltage Range		90		295	Vac
Input Frequency Range		47		63	HZ
Input AC Current	100%Load at 115V Input			2.7	A
Inrush Current	100%Load at 230V Input Cold start			40	A
Power Factor	70%-100%Load at100-277V Input	0.9			
THD	70%-100%Load at100-277V Input			20%	

#### 2. Output Specifications

Parameter	Notes	Min.	Typ.	Max.	Unit
Output Voltage	Load at 100-277V Input	60%		100%	
	No-load at 100-277V Input			120%	
Line Regulation	60%-100%Load at100-277V Input	-1%		+1%	
Load Regulation	60%-100%Load at100-277V Input	-1%		+1%	
Current deviation	60%-100%Load at100-277V Input	-5%		+5%	
Output frequency	100%Load at120V 60HZ Input		120		HZ
Output current modulation	100%Load at120V 60HZ Input			5%	
Starup Overshoot Current	100%Load at LED load			10%	
Efficiency (1)	100%Load at 230V Input		92%		
Turn-on Delay Time	100%Load at120V Input(Oscilloscope)			1000	ms

#### 3. Dimming Features

Parameter	Notes	Min.	Typ.	Max.	Unit
Dimming Port input current			100		uA
Dimming ratio	At 100-277V Input	10%		100%	
DC dimming mode	Amplitude voltage	0	10	12	V
PWM dimming mode	PWM Amplitude voltage	10		12	V
	PWM Frequency	1		10	KHZ
VR dimming mode	Resistance range	0		100	K Ω

#### 4. Environment Features

Parameter	Notes	Min.	Typ.	Max.	Unit
Operating TEMP. range		-40		60	°C
Storage TEMP. Range		-40		85	°C
International Protection:			IP66		
Case TEMP. (Tc) (2)	When Ta=60°C			90	°C

Notes:

1. Test sample model:DF240W-42C5700B
2. Refer to mechanical

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Input: 100-277VAC High Power Factor High efficiency For high bay light IP66 UL CB CE

### 5. Safety Features

Parameter	Notes	Min.	Typ.	Max.	Unit
Leakage Current	L,N To GND 25°C 70%RH			1	mA
Withstand Voltage	L,N To GND 25°C 70%RH	2200			Vdc
	L,N To OUTPUT 25°C 70%RH	3750			Vac
Insulation Resistance	Input To Output (500Vdc 25°C 70%RH)	10			MΩ

### 6. Protection Functions

Parameter	Notes	Protection Performance
Over Voltage Protection	When the load voltage exceeds 1.2 times the rated voltage	Total power is reduced
Over Load Protection	When the load power exceeds 1.2 times the rated power	Total power is reduced
Short Circuit Protection	When the output is shorted	Hiccup Mode
Over Temperature Protection	When the case temperature is over 120°C	Shutdown

### 7. Product Specifications

Parameter	Notes	Protection Performance
Size	234*72*38mm	
Weight	1200g	
Color	Black	
MTBF	200000Hours	TA=25°C (MIL-HDBK-217F)
Life Time	When Tc<85°C Life Time>50000Hours	

### 8. Safety Certification

Safety Category	Standard
UL/CUL	UL8750 ,
CE	EN61347-1:2008+A1,EN61347-2-13:2006,EN62493:2010
CB	IEC61347-1:2007+A1,IEC61347-2-13:2006

### 9. Electromagnetic Compatibility

EMI	Notes
EN55015B	Conducted Emission Test & Radiated Emission Test
EN61000-3-2	Harmonic current emissions
EN61000-3-3	Voltage fluctuations & flicker
FCC Part 15	ANSI C63.4:2009 Class B
EMS	Notes
EN61000-4-2	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge
EN61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS
EN61000-4-4	Electrical Fast Transient / Burst-EFT: Level 3, Criteria A
EN61000-4-5	Surge Immunity Test: AC Power Line: Line to Line 4 kV Line to GND 6KV
EN61000-4-6	Conducted Radio Frequency Disturbances Test-CS
EN61000-4-8	Power Frequency Magnetic Field Test
EN61000-4-11	Voltage Dips
EN61547	Electromagnetic Immunity Requirements Applies To Lighting Equipment

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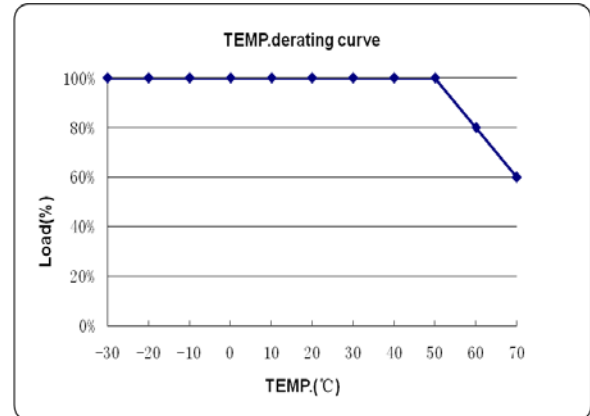
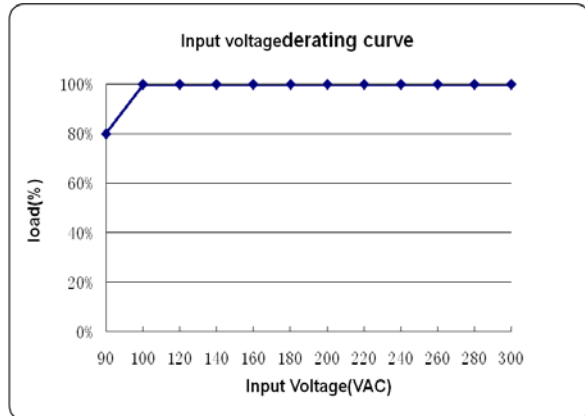
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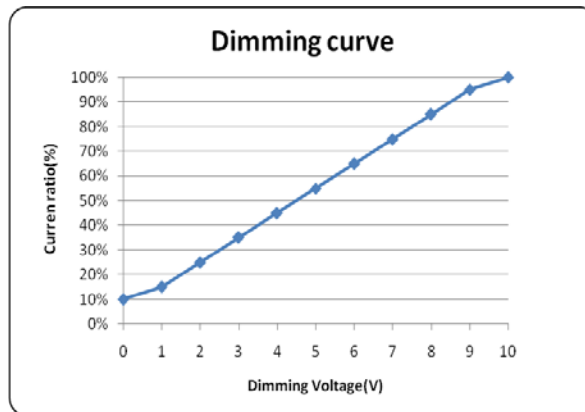
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### Curve Feature:

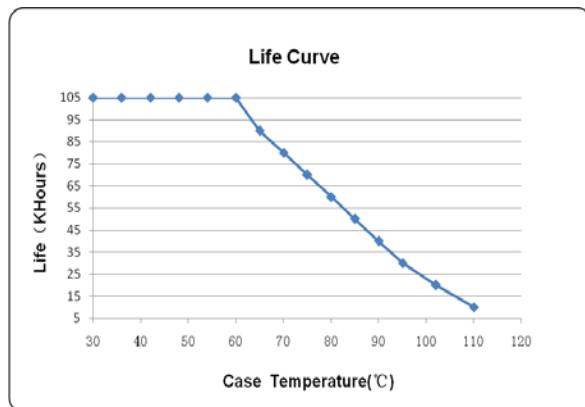
#### 1, Derating curve



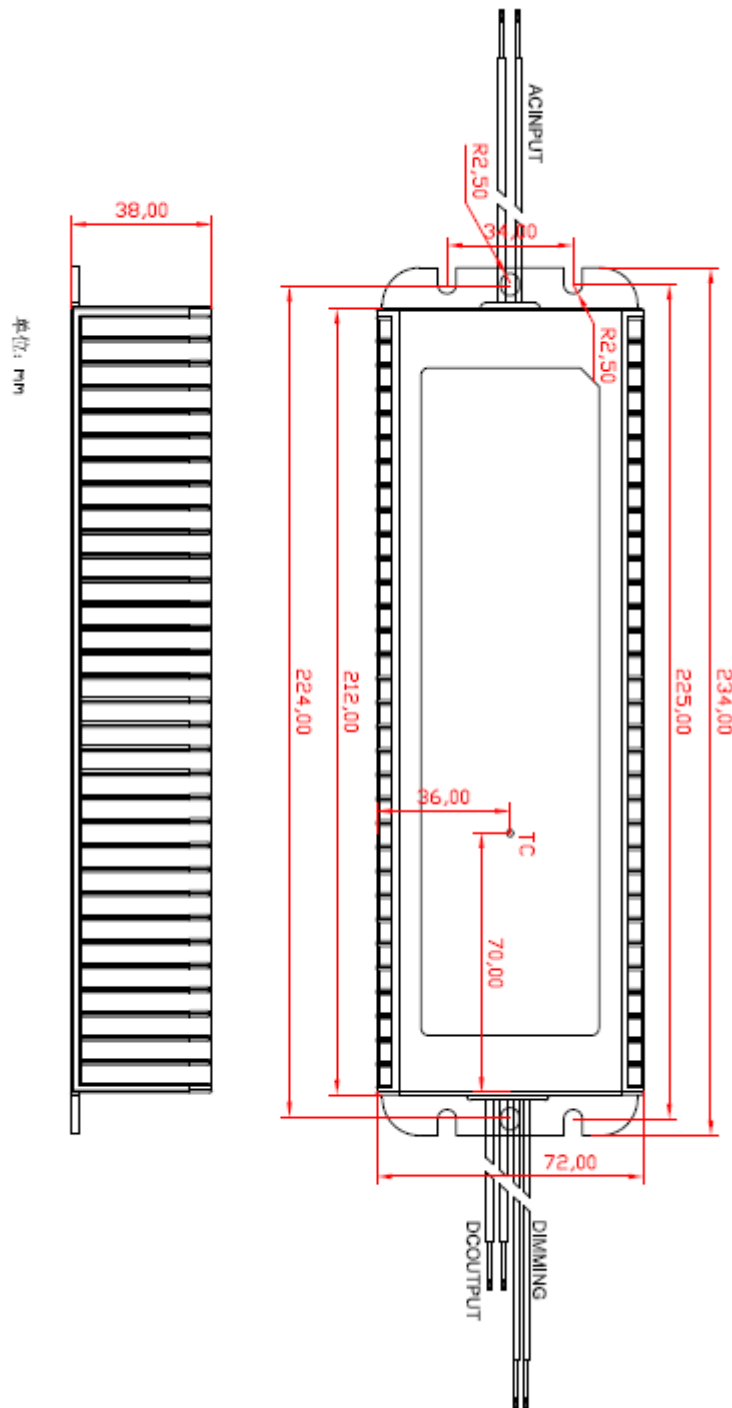
#### 2, Dimming curve



#### 3, Life curve



**Mechanical:**



Parameter	Cable Specifications	Standard length	Remark
AC cable	UL1015 18AWG Black=L ,White=N	A=200mm	Length can be customized
DC cable	UL1569 16AWG Red=LED+, black=LED-	B=200mm	
Dimming cable	UL 1430 22AWG Gray=DIM+,Purple=DIM-	C=200mm	

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