

SPECIFICATIONS

Product Features:

- ◆ Input Voltage Range:100~277VAC;
- ◆ High Power Factor;
- ◆ Efficiency Up to 87%;
- ◆ Meet UL8750 CB CE;
- ◆ International Protection:IP66;
- ◆ Dimming With 0-10V/PWM/VR;
- ◆ For Outdoor LED lightst;
- ◆ Two-stage PFC, No flicker;
- ◆ 5 Years Warranty;

SLEV



CE CB IP66



Model List:

Model	UL/CUL	CE	CQC	Output Voltage	Output Current	Output Power(Max)	Efficiency
DF150W-34C4400B	Y	Y	--	21-34V	4400mA	150W	87%
DFxxxW-34Cyyyyz XXX are 3 digits ranging from 100 to 150, which indicates output power in Wattage; For example, 150 represent output wattage 150W; YYYYY are 4 digits from 2900 to 4400, which indicates output current in mA. For example, 4400 represents output current 4400mA; Z maybe A or B, where A indicates no dimming function, B indicates dimming function.							
DF150W-40C3800B-a	Y	Y	--	24-40V	3800mA	152W	87%
DFxxxW-40Cyyyyz-a XXX are 3 digits ranging from 100 to 150, which indicates output power in Wattage; For example, 150 represent output wattage 150W; YYYYY are 4 digits from 2500 to 3800, which indicates output current in mA. For example, 3800 represents output current 3800mA; Z maybe A or B, where A indicates no dimming function, B indicates dimming function. a Difference code							

Revision History:

Change Date	Rev:	Before Change	After Change
2017/06/03	1.0	/	Datasheets Release

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DF150W 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			1.8	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%	
Starup Overshoot Current	10%-100%Load at LED load			10%	
Efficiency (1)	100%Load at 230V Input		87%		
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	at100-277V Input	10%		100%	
Dimming port Limit voltage		0		15	V
PWM mode Amplitude voltage	PMW: Pulse Width Modulation		10		V
PWM mode Frequency		200		1000	HZ
VR mode Resistance range	VR: Variable Resister	0		100	K Ω

4. Environment Features

Parameter	Notes	Min.	Typ.	Max.	Unit
Operating TEMP. range(2)		-30		70	℃
Storage TEMP. Range		-40		85	℃
International Protection:			IP66		
Case TEMP. (Tc) (3)	When Ta=60℃			90	℃

Notes:

1. Test sample model:DF150W-34C4400B
2. Refer to operating temperature derating curve.
3. Refer to mechanical

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5. Safety Features

Parameter	Notes	Min.	Typ.	Max.	Unit
Leakage Current	L,N To GND 25℃ 70%RH			1	mA
Withstand Voltage	L,N To GND 25℃ 70%RH	2200			Vdc
	L,N To OUTPUT 25℃ 70%RH	3750			Vac
Grounding Continuity	GND Line To Case at 25A 25℃ 70%RH			100	mΩ
Insulation Resistance	Iput To Output (500Vdc 25℃ 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℃	Shutdown

7. Product Specifications

Parameter	Notes	Protection Performance
Size	201*67*38mm	
Weight	810g	
Color	Black	
MTBF	200000Hours	TA=25℃ (MIL-HDBK-217F)
Life Time	When Tc<85℃ 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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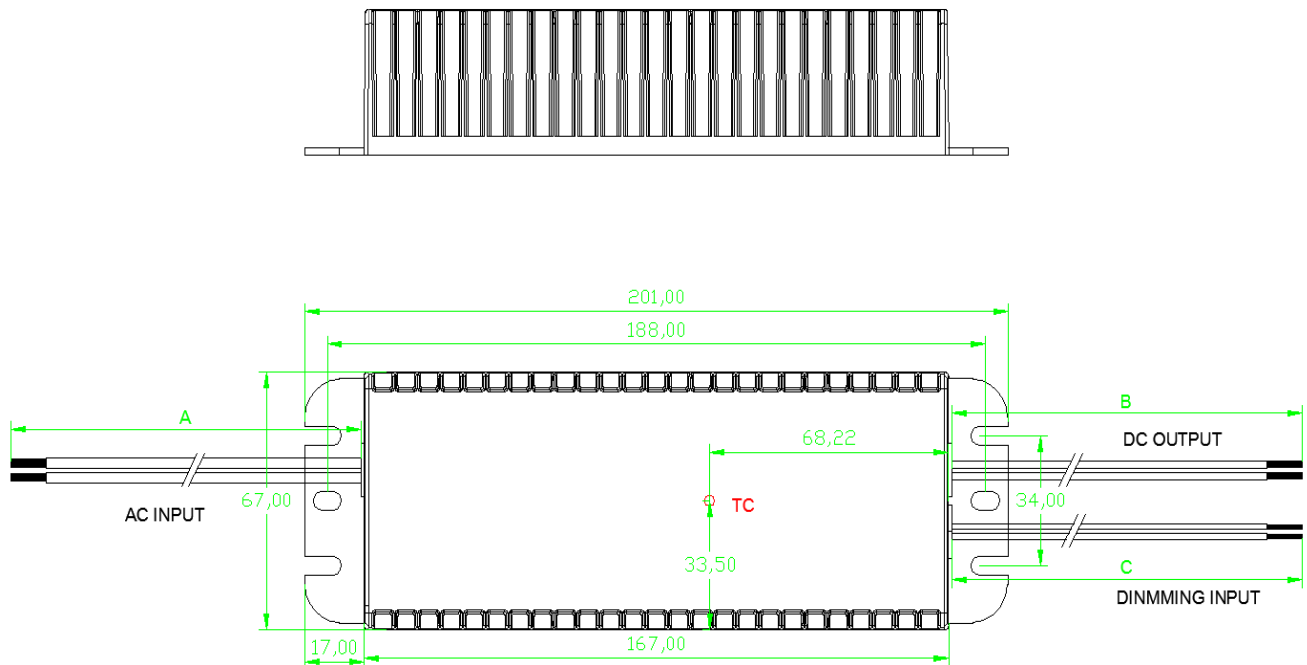
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Mechanical:



Parameter	Cable Specifications	Standard length	Remark
AC cable	UL1015 18AWG Black=L ,White=N	A=200mm	Length can be customized
DC cable	UL1569 18AWG Red=LED+, black=LED-	B=200mm	
Dimming cable	UL 1430 22AWG Gray=DIM+,Purple=DIM-	C=180mm	

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