

■ **Features :**

- Suitable for LED lighting application
- Standard : CB, CE, UL
- IP67
- 0-10V Dimming Control
- 5-years warranty



**IP67**



## SAMSUNG ELECTRO-MECHANICS CO., LTD

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## 18W Power Driver for LED Lighting

### ■ Electrical specification

No.	Item	Min	Typ	Max	Unit	Remark
1	Nominal Input Voltage	120		277	Vac	
2	Wide Input Voltage	108		305	Vac	
3	Maximum Input Current			0.3	Arms	
4	Nominal Input Frequency	50		60	Hz	
5	Wide Input Frequency	47		63	Hz	
6	Power Factor (PF)	0.9				1)
7	Total Harmonic Distortion (THD)			20	%	1)
8	Inrush Current	NEMA410				7)
9	Earth Leakage Current			500	$\mu$ A	
10	Output Voltage	20	52	55	Vdc	
11	Output Current	333	350	367	mA	
12	Output Current Ripple			20	%	1)
13	Output Peak Current			550	mA	1)
14	Output Aging Current Differential			20	mA	2hr Aging
15	Turn-on Delay Time			1,000	ms	2)
16	Electrical Efficiency	85			%	3)
17	Dimming Control	10		100	%	0-10V Sink&Source Dimmer
18	Output Open LED Protection	-	-	60	Vdc	Auto-recovery
19	Output Short Circuit Protection	-	-	-	-	Auto-recovery
20	Over-temperature Protection	105			$^{\circ}$ C	Auto-recovery
21	Maxmum Case Temperature (Tc)			85	$^{\circ}$ C	
22	Storage Temperature	-40		85	$^{\circ}$ C	
23	Operating Temperature	-40		60	$^{\circ}$ C	
24	Insulation Resistance	100			M $\Omega$	500Vdc between Input & Output
25	Differential Mode (Line to Line)	-6		6	kV	4)
26	Common Mode (Line to Ground)	-8		8	kV	4) 6)
27	Contact Discharge Test Voltage	-4		4	kV	5)
28	Air Discharge Test Voltage	-8		8	kV	5) 6)
29	Dielectric Withstand Voltage	Input to Output	3854		Vac	Apply for 1 minute 8)
30		Input to Case	1554		Vac	
31		Output to Case	500		Vdc	

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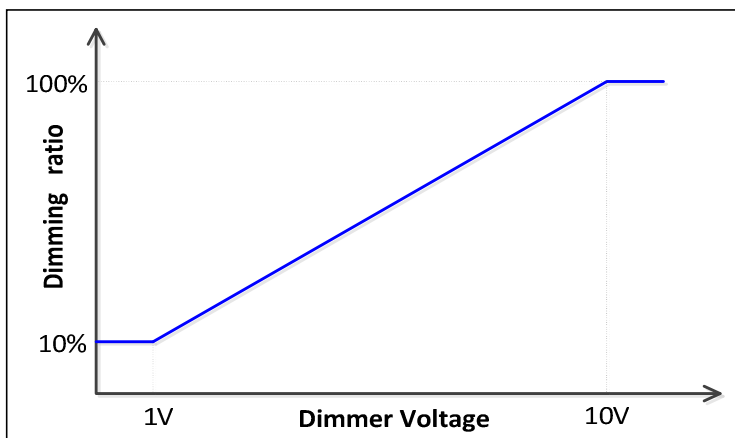
## 18W Power Driver for LED Lighting

No.	Item	Min	Typ	Max	Unit	Remark
32	Vibration			3	G	
33	Humidity			90	%	

### Notes

- 1) Test Condition: 120/277Vac 50/60Hz Input, LED typ Load\_50V, Ambient Temperature 25°C
- 2) Test Condition: Input voltage 277Vac 50Hz, Room Temperature, Cold start
- 3) Test Condition: 240Vac Input, 1hr Aging, LED typ Load\_50V, Ambient Temperature 25°C
- 4) Surge Specification above is higher than IEC/EN 61000-4-5 (Line to Line 1kV, Line to GND 2kV)
- 5) ESD Specification above meets IEC/EN 61000-4-2 Requirements (Contact 4KV, Air 8KV)
- 6) The metal case of the driver should be grounded.
- 7) Input 120Vac, < 192Apeak, < 1.2ms, < 74A2sec
- 8) Determined by Paragraph 8.4.2, UL8750, IEC/EN61347-1, IEC/EN61347-2-13

### Dimming Curve



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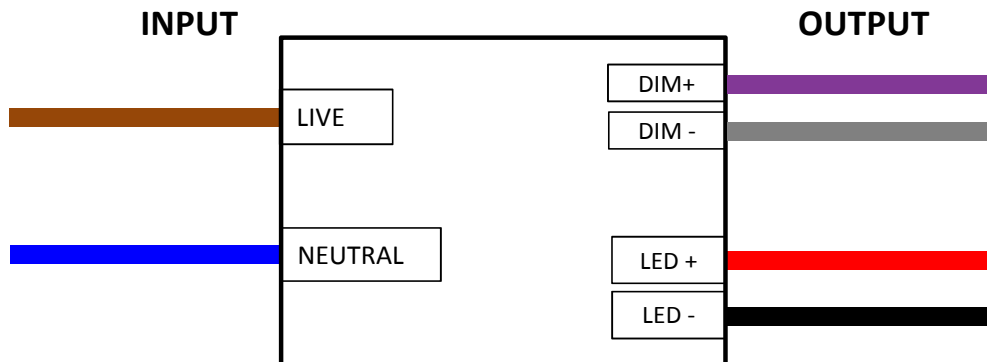
# 18W Power Driver for LED Lighting

## ☞ Safety Standards

Including safety requirements above, the LED driver complies with the following safety standards:

No.	Item	Description
1	FCC Part 15, CISPR15	Conducted and Radiated Emission Test, Class B
2	IEC/EN 61347-2-13	IEC Safety Standards
3	UL8750, UL1310	UL Safety Standards (Class 2, Dry and Damp Location) 1)
4	EN 55015	Conducted and Radiated Emission Test
5	IEC/EN 61000-3-2	Harmonic current emissions: Class C
6	IEC/EN 61000-3-3	Voltage Fluctuations and Flicker
7	IEC/EN 61000-4-2	Electrostatic Discharge (ESD): Contact 4kV, Air 8kV
8	IEC/EN 61000-4-3	Radio-frequency Electromagnetic Fields
9	IEC/EN 61000-4-4	Electrical Fast Transients (EFT)
10	IEC/EN 61000-4-5	Surges: Line to Line 1kV, Line to GND 2kV
11	IEC/EN 61000-4-6	Injected Currents
12	IEC/EN 61000-4-8	Power Frequency Magnetic Fields
13	IEC/EN 61000-4-11	Voltage Dips and Short Interruptions
14	IP Grade	IP67

## ■ Wiring Diagram



Remark) Output wiring specifications can be changed.

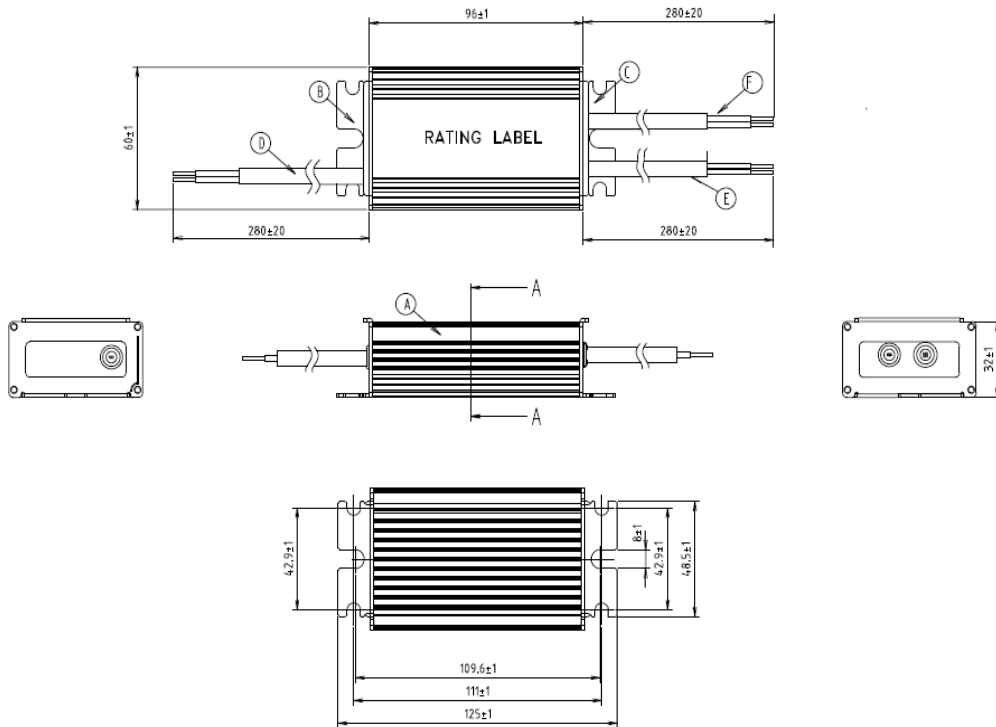
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# 18W Power Driver for LED Lighting

## ■ Mechanical Specification

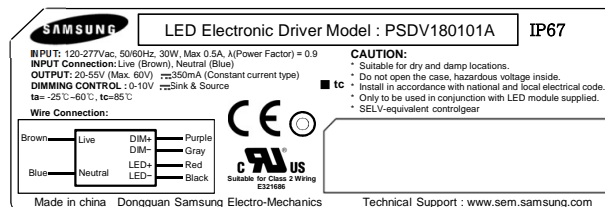


## ■ Enclosure Size

Unit	Case Width	Case Length	Case Height	Mounting Width	Mounting Length	Overall Height
mm	60	96	32	42.9	111	125
inch	2.362	3.780	1.260	1.689	4.370	4.921

## ■ Case Material : Aluminium

## ■ Rating Label Drawing



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