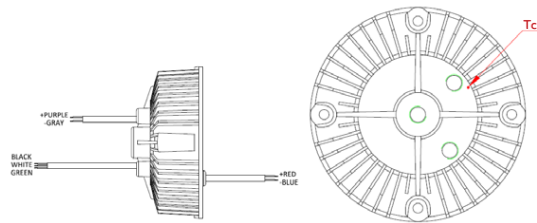




**ELECTRICAL SPECIFICATIONS:**

Output Power Max	Input Power	Input Current	Min PF (full load)	Max THD (full load)	Output Voltage	Output Current	T case Max	Min Starting Temp	Efficiency Up To	IP Rating	Dimming Protocol	Dimming Range
160W	178W	0.51A@347V	>0.9	<20	29-48V	3300mA +/- 5%	90°C	-40°C	88%	66	0 to 10V	10 to 100%

**WIRING:**



Lead Lengths					
Black	11.8"	Blue	7.9"	Purple	7.1"
White	11.8"	Red	7.9"	Gray	7.1"
Green	11.8"				

**PHYSICAL:**



Dimensions			
Length	5.98"	Height	2.83"
Width	N/A	Mounting Length	5.2"

**SAFETY:**

- Class P Listed
- Class A sound rating
- Overload Protection
- Open/Short Circuit Protection
- LED driver has a life expectancy of 50,000 hours at Tcase of  $\leq 75^{\circ}\text{C}$
- LED driver has a life expectancy of 100,000 hours at Tcase of  $\leq 65^{\circ}\text{C}$
- Warranty: 5 yrs based on max case temp of  $< 75^{\circ}\text{C}$ ; 3 yrs based on max case temp of  $90^{\circ}\text{C}$ \*
- Input/Output Isolation
- FCC Title 47 CFR Part 15
- Surge Protection (6 KV)

**INSTALLATION:**

- Max Remote installation distance is 18 ft
- LED driver cases should be grounded
- LED drivers shall be installed inside electrical enclosures
- 18 AWG 600V/105C tinned stranded copper lead-wires are required for installation



\*AC Electronics/AC LED Power Designs warrants to the purchaser that each LED Driver will be free from defects in material or workmanship for a period of 5 years when operated at max case temp of up to  $< 75^{\circ}\text{C}$ ; 3 years from date of manufacture when operated at a max case temp of up to  $90^{\circ}\text{C}$  when properly installed and under normal conditions of use. See [aceleds.com](http://aceleds.com) for complete warranty policy.

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**Performance Characteristics**
**Input Specifications**

Parameter	Min.	Typ.	Max.	Notes
Input Voltage	312V	347V	381V	
Input Current	-	-	0.51A RMS	@347Vac input with full load
Input Frequency	47Hz	60Hz	63Hz	
Leakage Current	-	-	0.7mA	@347Vac input
Turn On Time	-	-	1.0s	@347Vac input at full load
Hold Up Time	-	-	0.1s	@Nominal input and full load
Efficiency	87%	88%	90%	@347Vac input at full load
Standby Power	-	-	3W	
Current Total Harmonic	-	-	20%	

**Output Specifications**

Parameter	Min.	Typ.	Max.	Notes
Output Voltage	29V	-	48V	
Output Current	-	3300mA	-	
No-Load Output Voltage	54V	57V	60V	
Rated Current	3150mA	3300mA	3450mA	
Rated Power	-	160W	-	
Line Regulation	-	-	±5%	
Output Current Ripple	-	±10 %	-	

**General Specifications**

Parameter	Min.	Typ.	Max.	Notes
MTBF	-	100,000 Hours	-	@25°C ambient temperature
Lifespan Time	75,000 Hours	-	-	In the range of specification required by normal use of the power supply at ambient temperature 55°C
Cold Start	-	-	1.0s	@ -40°C

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**Performance Characteristics**
**Environmental Specifications**

Parameter	Min.	Typ.	Max.	Notes
Operation Temperature	-40 °C	-	50 °C	
Storage Temperature	-40 °C	-	80 °C	
Humidity	10%	-	90%	

High Temperature Durability	Switch ON/OFF Test
Power storage environment at 80°C 24 hours, will not damage the electrical, mechanical properties and also not cause other adverse reactions.	Power at ambient temperature 25°C Is/on, Is/off, last up to 10,000 cycles, will not damage the electrical, mechanical properties and also not cause other adverse reactions.

**Safety and EMC Compliance**

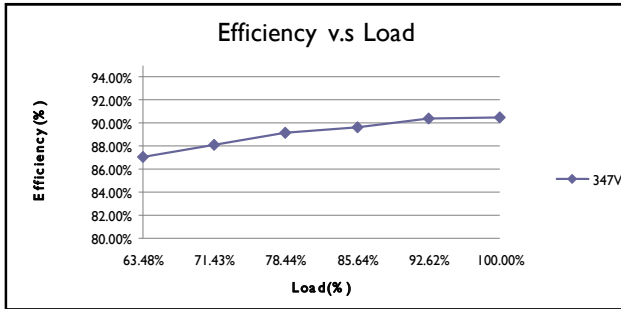
Safety Standards	Withstand Voltage	Isolation Resistance	EMC Standards	
			EMI	EMS
UL 8750 UL1310	I/P -O/P: 2.0K Vac I/P -FG: 2.0K Vac O/P-FG: 0.5K Vac	I/P -O/P: I/P -FG: O/P-FG: 100Mohm/500VDC	FCCPart 15 class A UL8750 CSA C22.2 No. 250.13 -14	FCCPart 15 class A UL 8750

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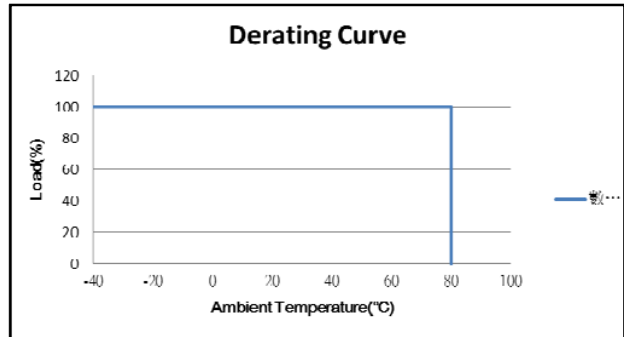
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**Performance Characteristics**

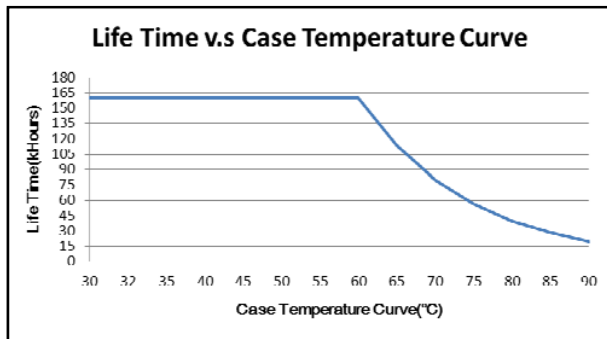
**Efficiency V.S. Load**



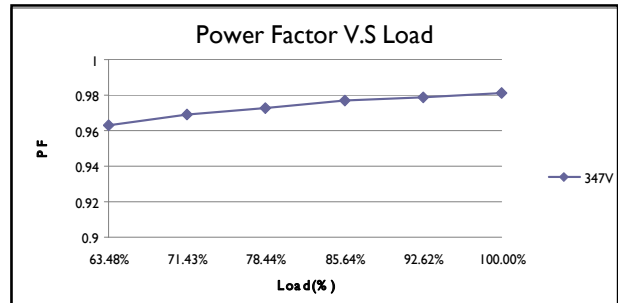
**Derating Curve**



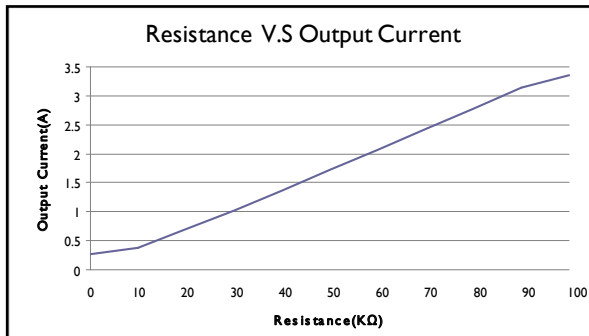
**Life Time Curve**



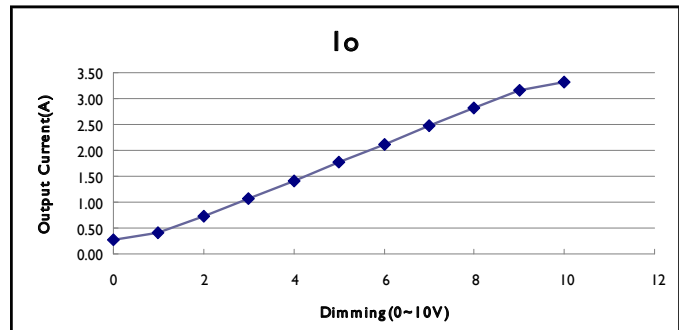
**Power Factor V.S. Load**



**Resistance V.S. Output Current**



**Dimming Characteristic**



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