

■ Features

- Power Rating: 150W
- Input Voltage: 100-347Vac
- Constant current design
- Adjustable output current(2000mA-4200mA)
- Output adjustable by Trim POT switch
- Efficiency to 91%
- 0-10V/PWM/Timer Dimming
- Dimming range 0-100%, flicker free
- 12V/AUX 3-wire Dimming
- Dim-to-off
- OCP, SCP
- IP65
- 5-year warranty
- Surge Protection level 4KV



*Product images are for illustrative purposes only and may vary from actual design.

■ Application

- Indoor or outdoor lights
- Dry or Damp locations

■ Model List*(See part number scheme for model number details)

Model Number	Input Voltage Range	Output Power	Output Voltage	Max Output Voltage	Output Current Min.	Output Current Max.	Efficiency 100/347Vac	Certification
LFACP150S420ST	100-347Vac	150W	27-54V	63V	2000mA	4200mA	89%/91%	UL

■ Technical Data

Input voltage range	100-347Vac
Frequency	50-60Hz
Power factor	> 0.95 under 200-347Vac, >0.92@480Vac 100% load condition
Inrush current	60A max. @230Vac 25°C
Max input current	1.8A @100-347Vac 100% load condition
Ripple & noise	800mVp-p
THD	< 20%@ 100-347Vac
Current accuracy	±5%lo
No load voltage	2Wmax
Efficiency	89-91%@100-347Vac & 100% load (see charts)
Output Voltage	27-54V

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August 22, 2019

■ Technical Data(cont.)

Line regulation	3%Io
Load regulation	3%Io
No load voltage	Vout +5V max.
Turn-on Delay Time	2s Max. at normal condition
Protection	Open circuit protection: Hiccup mode. Protection will trigger when load voltage exceeds specified output voltage and will auto recover after the fault mode is removed. Short circuit protection: Hiccup mode. Protection will trigger when short circuit and will auto recover after the fault mode is removed.
Operating Temperature	-40°C to +60°C
Operating Relative Humidity	10%RH to 90%RH
Storage Temperature	-40°C to +85°C
Storage Relative humidity	10%RH to 90%RH
Vibration	10 to 500Hz Sweep at constant acceleration of 1G (depth: 3.5mm) for 1 hour for each of the perpendicular axes x, y, z
Lifetime	≥5 years@ 347Vac, 100% load
MTBF	≥200,000 hours at 25°C at 347Vac, 80% load (MIL-HDBK-217F)
Dimensions LxWxH	178x68x36mm
Weight	1460g
Packing	12pcs/carton

■ Safety Compliance

Safety Standard	GB19510.1, GB19510.14; EN61347-1, EN61347-2-13; UL8750, CSA C22.2 No. 250.13-12
Dielectric Strength	P-S:3750Vac/5mA/60S P-E:1500Vac/5mA/60S P-S:500Vac/5mA/60S
Insulation Resistance	I/P-O/P: > 50M Ohms/500Vdc/25°C/70% RH
Leakage Current	The leakage current shall be less than 0.25mA for Class 2 at maximum input voltage
EMI	GB17743, GB17625.1; EN55015, EN61000-3-2, EN61000-3-3
EMS	EN61000-4-2,3,4,5,6,8,11, EN61547
ESD	Severity Level 3/3 ±8KV, Severity Level 2/2 ±4KV
RF	80-1000MHZ; Severity Level 2/2, 3V/M; Performance Criterion: A
EFT	Severity Level 2/2, line to line 1kv: B
Surge Immunity	Severity level 2/2, 4kv; Severity Level 3/3, 4kv; Performance Criterion B

Notes:

1. The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25°C and humidity 50%, AC input 347V and 90% output load.
2. Io is rated output current.

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August 22, 2019

Disclaimer:

Autec Power Systems' (Autec) LED Drivers are Hi-Pot tested during the manufacturing process. Autec assumes no responsibility for secondary Hi-Pot testing at customer location or designated production line(s). Should customer require further Hi-Pot testing, at their own production line, following assembly of the LED Driver into the customer's assembled fixture, Autec requests advance notice. This request must be communicated to Autec in a timely manner and is recommended to be requested at time of issuing each purchase order.

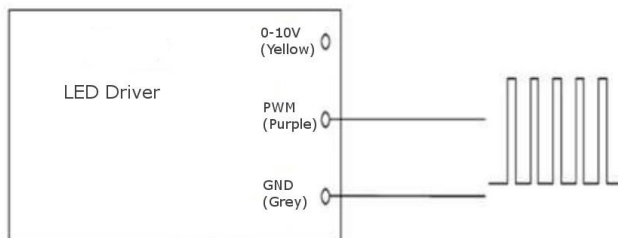
■ Dimming Features

Dimming Type	Parameter	Min	Typ	Max	Remarks
0-10V 1-10V	Signal Level	-20V	0-10V	14V	
	Dimming Range	10%		100%	Output Current percentage
	Turn On level	0.3V	0.5V	0.7V	
	Shutdown level	0.5V	0.7V	0.9V	
PWM	Signal Level	0V	10Vp-p	14V	
	Signal Frequency	200Hz		2KHz	
	Duty Cycle	5%		100%	
Resistance Dimming	Resistance	0.4kΩ		50kΩ	
	Dimming Range	10%		100%	Output Current percentage

Dimming Function			0-10V				PWM			RX		
			✓				✓			✓		
0-10V	0	1	2	3	4	5	6	7	8	9	10	open
Ir	0	11%	22%	31%	41%	51%	61%	71%	81%	91%	100%	100%
PWM	0	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%
Ir	0	9%	19%	29%	39%	49%	59%	69%	80%	90%	100%	100%
RX	0	0.4KΩ	0.8KΩ	1.4KΩ	2.2KΩ	3.2KΩ	4.3KΩ	6.3KΩ	9.6KΩ	16.2KΩ	45KΩ	50KΩ
Ir	0	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	100%

Notes:

1. % refers to the percentage of the dimming signal.
2. 0-10V, PWM, RX refers to three different dimming functions, the percentage of the output current for the corresponding dimming signal percentages.

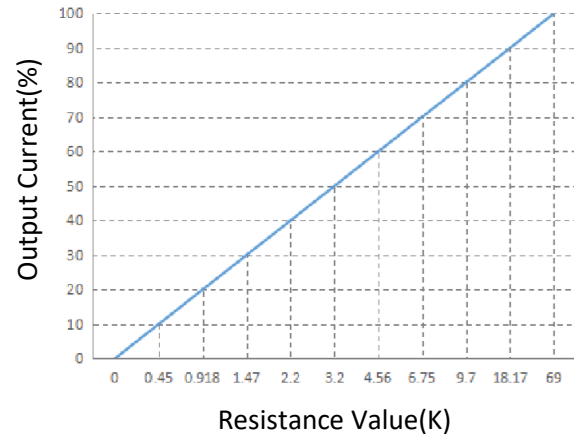
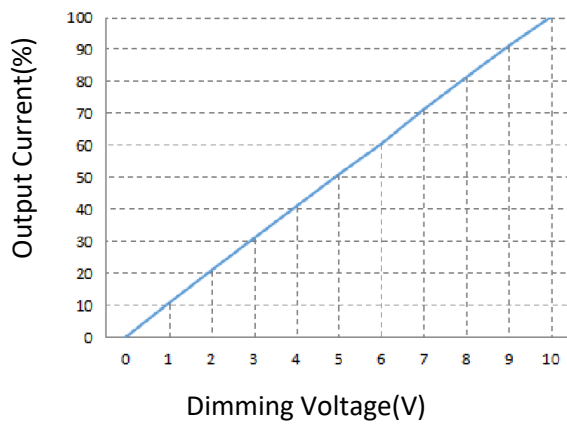
■ PWM Dimming


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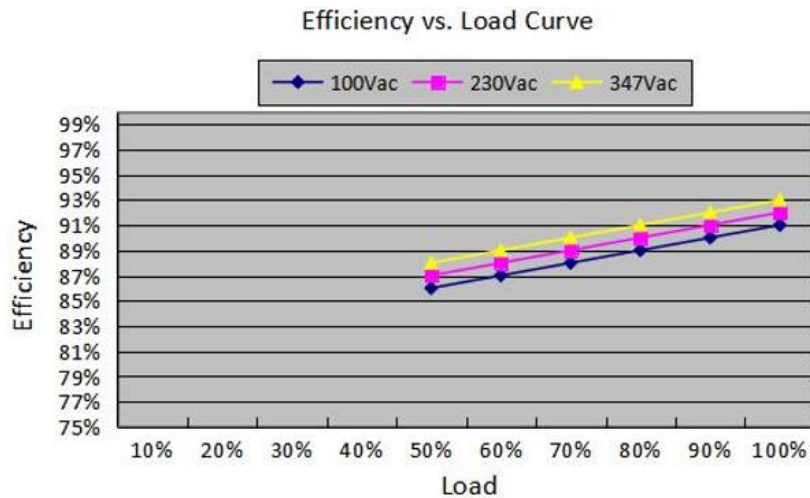
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August 22, 2019

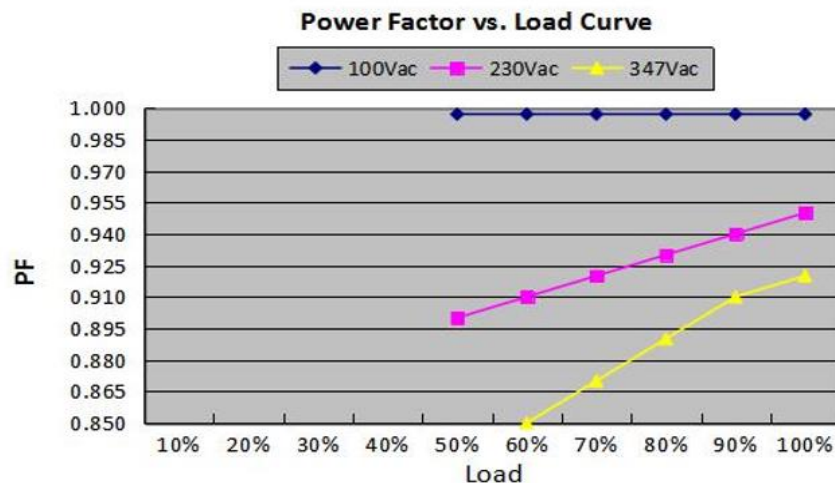
■ Dimming Graphs



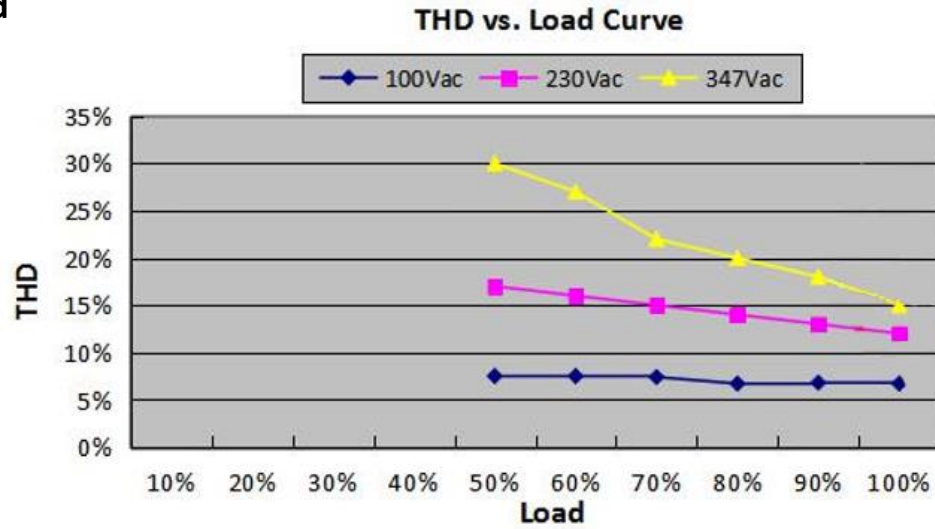
■ Efficiency vs Load Curve



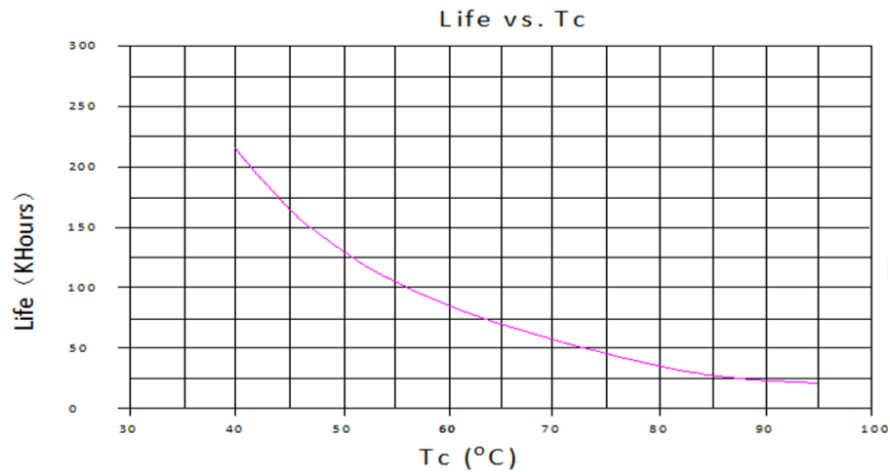
■ Power Factor vs Load



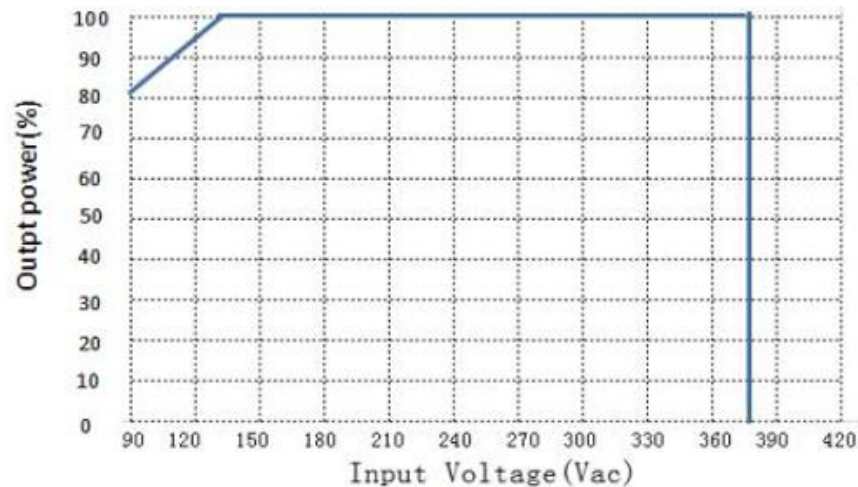
■ **THD vs Load**



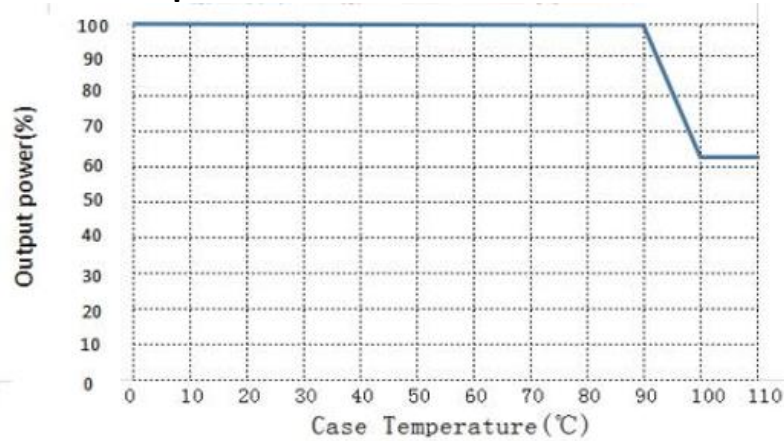
■ **Life vs Tc**



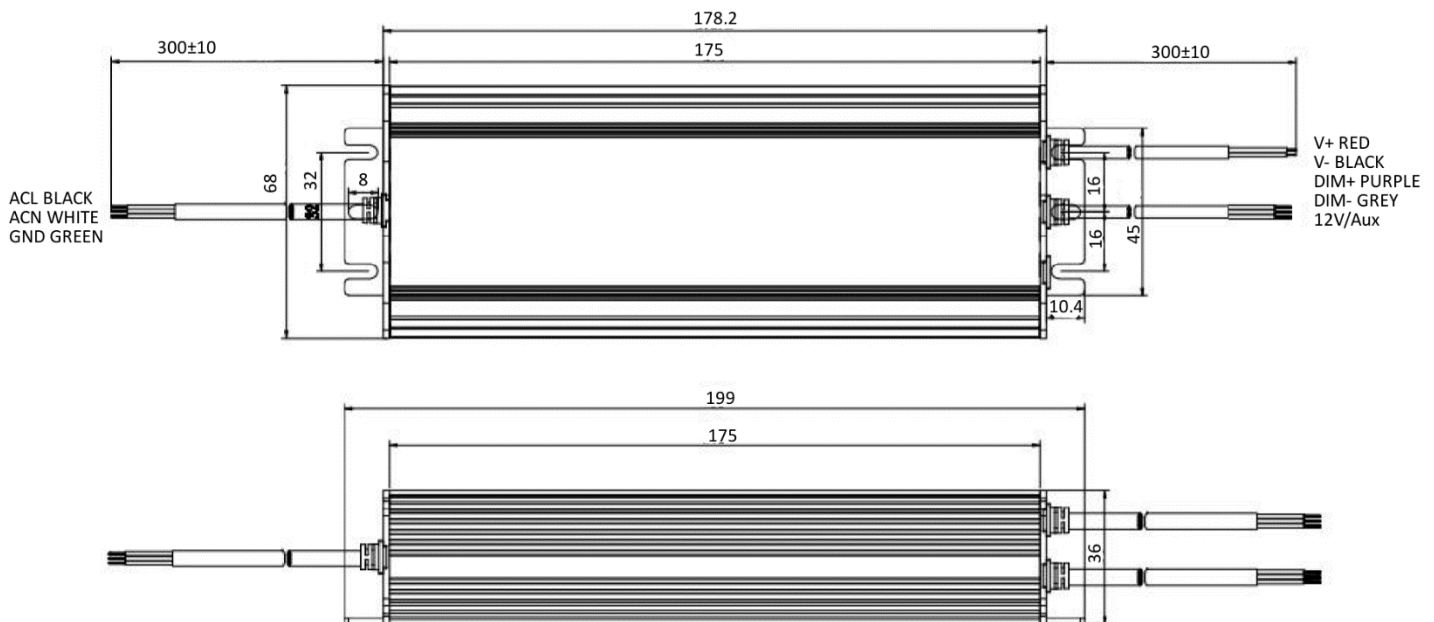
■ **Output Power vs Input Voltage**



■ Output Power vs Shell Temperature



■ Mechanical Diagram (Unit:mm)

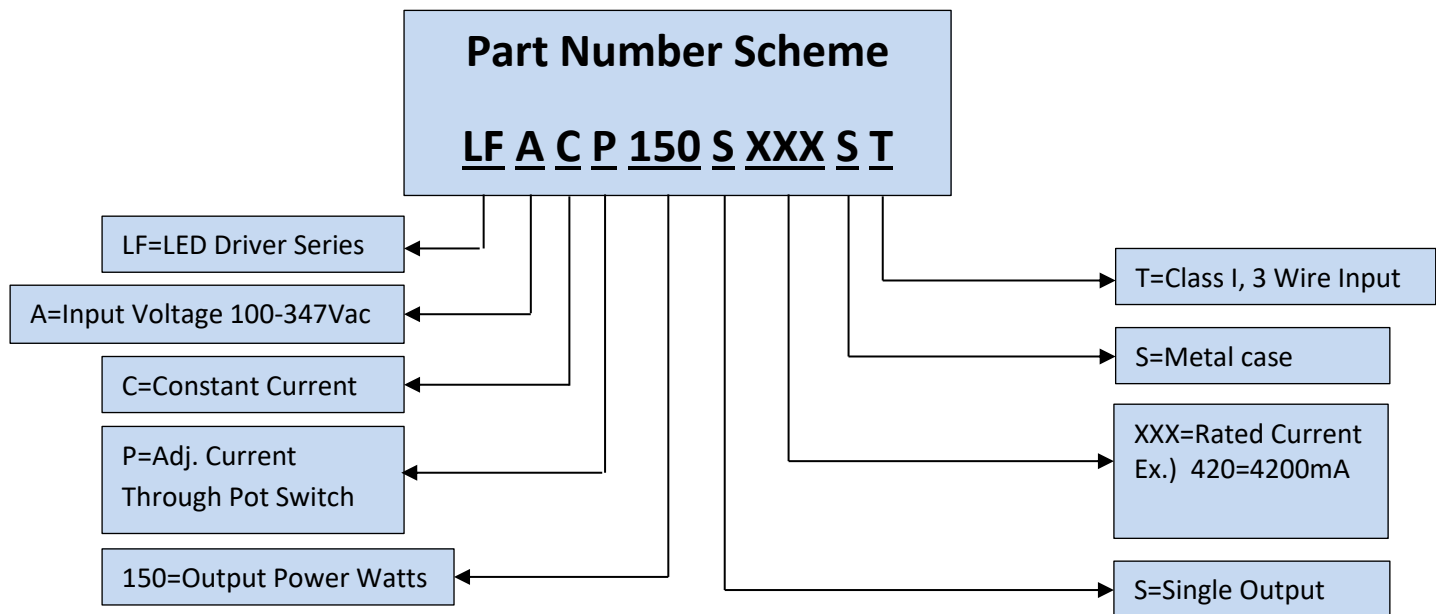


Wire Specifications	
AC Input	UL STW18# Line: Black, Neutral: White, GND: Green
DC Output	UL STW18# LED+: RED, LED-: Black
Dimming Control	UL 2426 20# DIM+: Purple, DIM-: Grey, 12V/Aux

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