

■ Features

- Power Rating: 600W
- Input Voltage: 120-277Vac
- Constant current design
- Fixed output current(11111mA)
- Efficiency to 95%
- 0-10V/PWM/Communication Dimming
- Dimming range 10%-100%
- OCP, SCP, and OTP
- Over current and Over voltage protection
- IP67
- 5-year warranty



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

■ Application

- Indoor or outdoor lights

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

Model Number	Input Voltage Range	Output Power	Output Voltage	Output Current Min.	Output Current Max.	Efficiency	Certification
L13WCD600S1111ST	120~277Vac	600W	54V	11110mA	11110mA	95%	UL/cUL
L13WCD600S556ST	120~277Vac	600W	108V	5560mA	5560mA	95%	UL/cUL
L13WCD600S333ST	120~277Vac	600W	180V	3330mA	3330mA	95%	UL/cUL
L13WCD600S220ST	120~277Vac	600W	300V	2200mA	2200mA	95%	UL/cUL

■ Technical Data

Input voltage range	120~277Vac
Frequency	50/60Hz
Power factor	≥ 0.95 under 120~277Vac input @Full load condition
Inrush current	≤70A@277Vac
Max input current	≤5.9A @120Vac
THD	≤15%@full load
Efficiency	≥94%
Output Ripple Voltage	≤800mV
Input Power	≤633W
Standby Power	≤10W
Leakage current	≤0.75mA max
Turn-on Delay Time	≤3S
Short Circuit Protection	When output is shorted, the driver will power off for short circuit protection. When short is removed the power will return and the driver will work normally. Hiccup mode

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■ Technical Data(cont.)

Open Circuit Protection	When the output is shut off, the driver will power off for open circuit protection. The driver will not be damaged. Hiccup mode
Over Temperature Protection	When the Temperature of the Driver exceeds 90°C(±10°C) the driver will shut off for high temperature protection. The driver will not be damaged. Hiccup mode
Over-current of Output Detect Protection	Protection happens when output current is up to OCP. The driver will not be damaged
Over-voltage of Output Detect Protection	Protection happens when output voltage is up to OVP. The driver will not be damaged.
Over-voltage/Low-voltage Detect Protection	Protection happens when input voltage is below 90V or up to 300V. When the input voltage returns to normal conditions the driver will function properly
Temperature Coefficient	90°C
Operating Temperature	-40°C to +90°C
Storage Temperature	-40°C to +85°C
Operating Humidity	20%-95% non-condensing
Storage Humidity	10%-95% non-condensing
Vibration	10-150Hz, Test time in any direction: 30min, Sweep velocity: 1oct/min, Direction X, Y, Z
MTBF	200,000h
LxWxH	283x145x48.5mm
Packing	4pcs per carton. Carton dimensions 344x344x160

Note: all parameters are rated under the condition of 25°C, Ripple current is subject to load.

■ Safety Compliance

UL/cUL	UL8750-Light Emitting Diode(LED) Equipment for use in lighting CSA-C22.2 No.250 13-Light emitting diode (LED) equipment for lighting applications
Insulation Resistance	500Vdc 60S 100MΩ
Dielectric Withstand Voltage	Input to Output: 1554Vac 10mA max/60S Input to GND: 1554Vac 10mA max/60S Output to GND: 500Vac 10mA max/60S Dimming to Output: 500Vac 10mA max/60S
Grounded Resistance	<0.5Ω, 30A, 60S
EMC	FCC part 15 Class B

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.

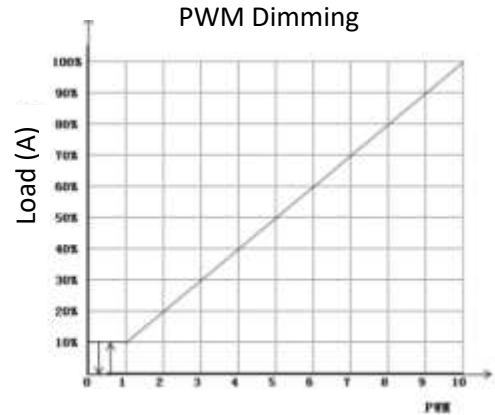
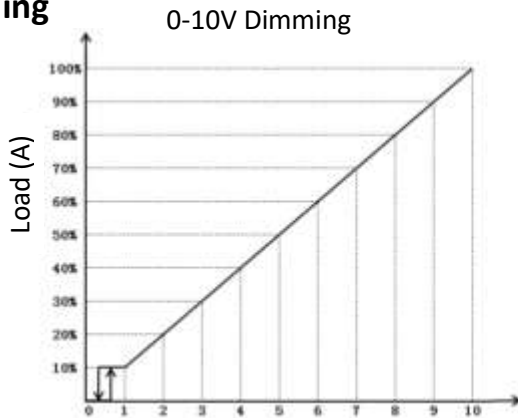
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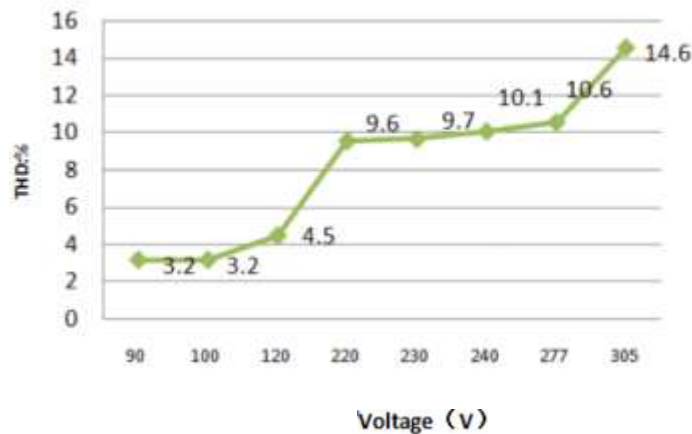
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■ Dimming

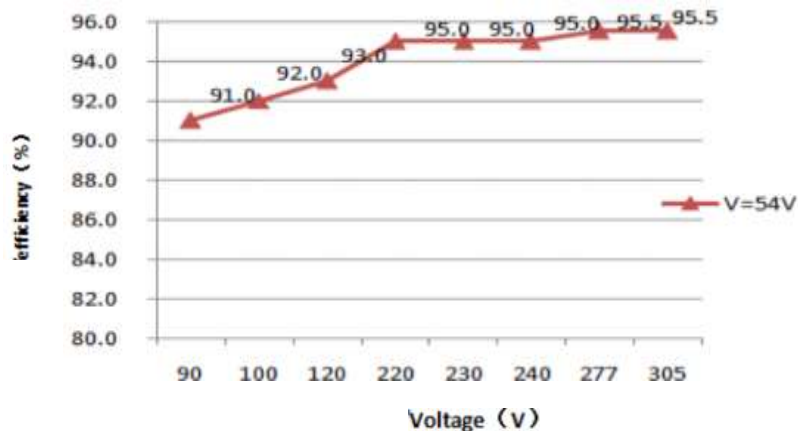


Notes: Dimming accuracy is $\pm 10\%$ Io
Dimming load is $< 1\text{mA}$, @10V

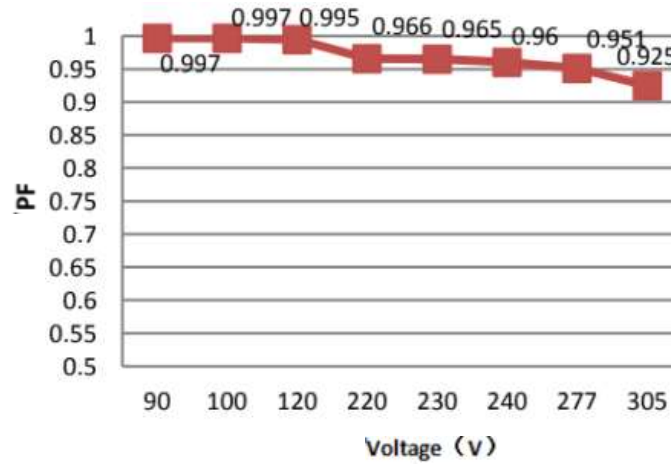
■ THD vs Voltage



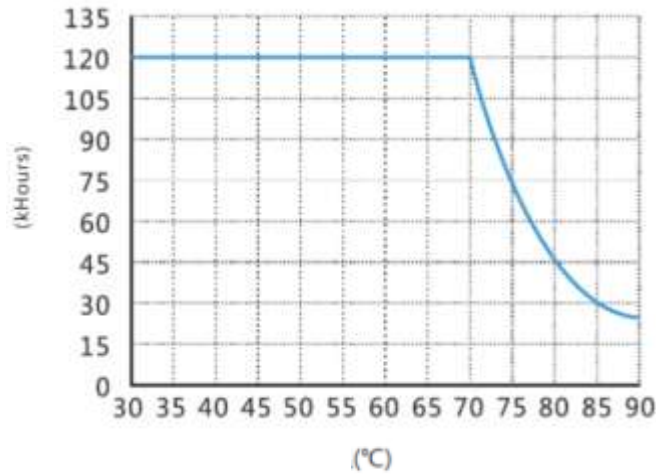
■ Efficiency vs Voltage



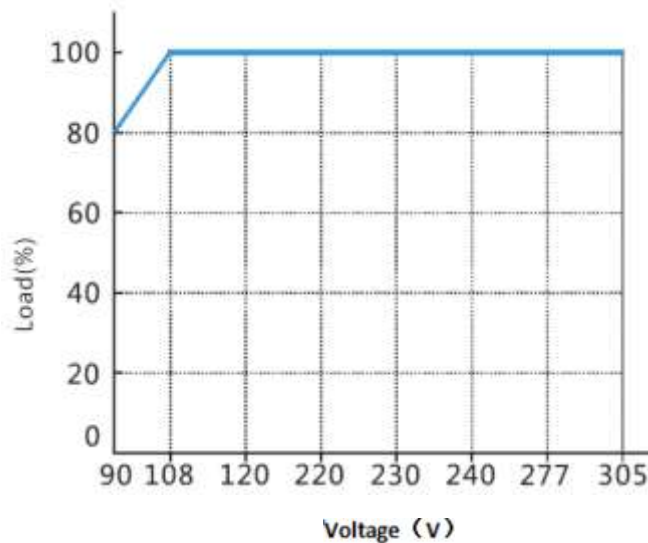
■ **PF vs Voltage**



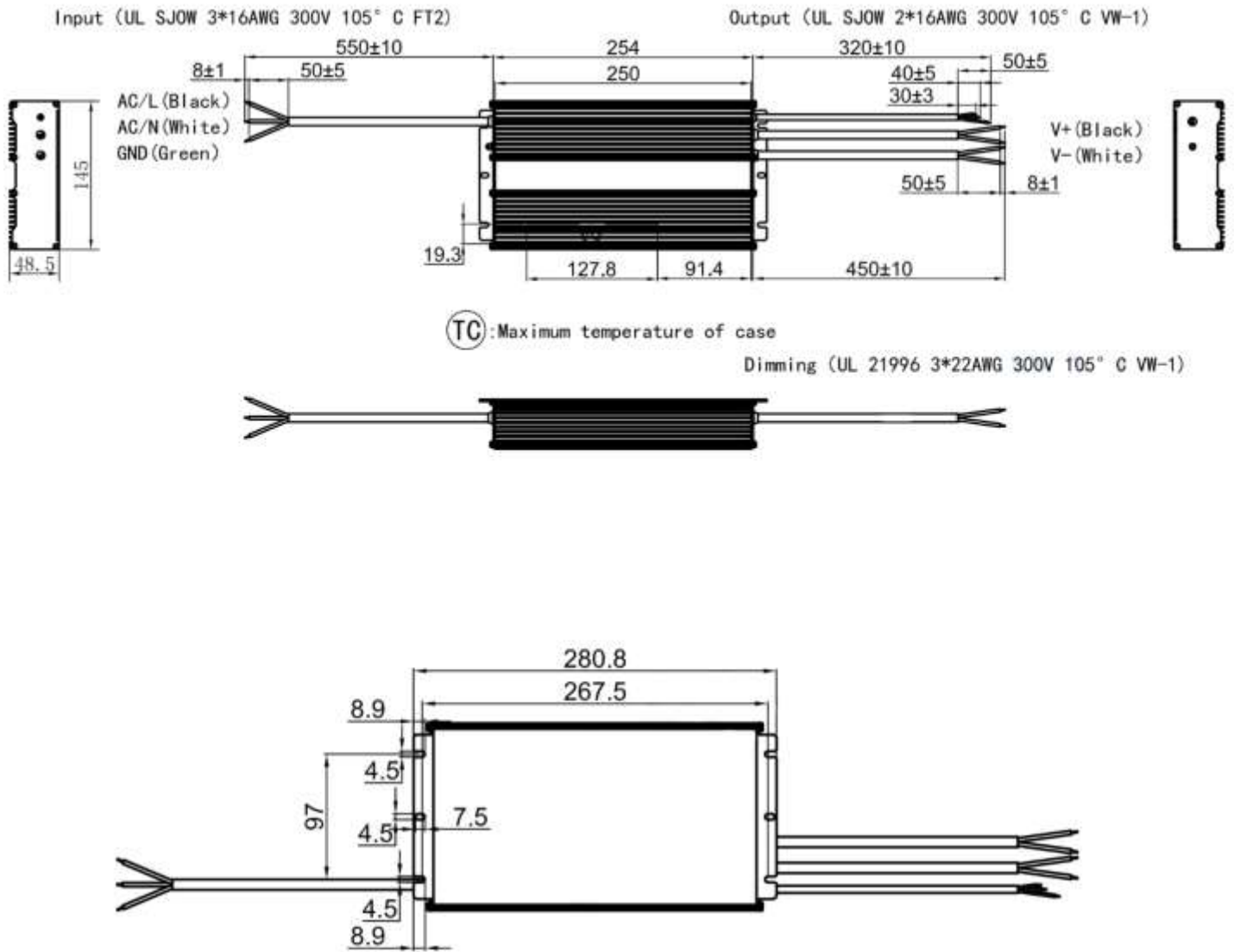
■ **Lifetime vs Case Temperature**

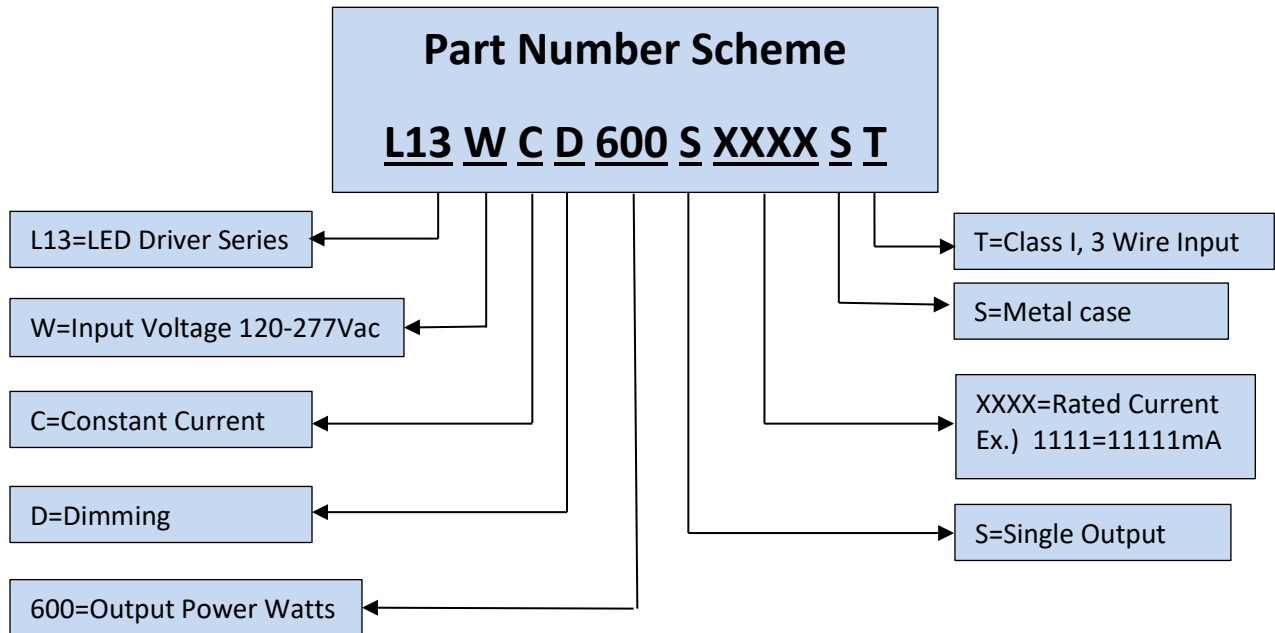


■ **Input Voltage vs Load**



■ Mechanical Diagram





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***Specifications are subject to change without notice. Autec is not responsible for issues arising from errors or omissions.**