

## ■ Features

- Power Rating: 10.5-16.8W
- Input Voltage: 120-277Vac
- Constant current design
- Fixed output current(250mA-400mA)
- Efficiency to 87%
- 0-10V Dimming
- SCP, and OVP
- UL Class P / Class 2
- IP65
- 5-year warranty

**RoHS**  
 Compliant


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

## ■ Application

- Indoor or outdoor lights
- Dry and damp locations

## ■ 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 120/277Vac	Certification
L6WCD016S025PS	120~277Vac	10.5W	24-42V	250mA	250mA	85%/84%	UL/cUL
L6WCD016S030PS	120~277Vac	12.6W	24-42V	300mA	300mA	85%/85%	UL/cUL
L6WCD016S035PS	120~277Vac	14.7W	24-42V	350mA	350mA	86%/85%	UL/cUL
L6WCD016S040PS	120~277Vac	16.8W	24-42V	400mA	400mA	87%/86%	UL/cUL

## ■ Technical Data

Input voltage range	120~277Vac
Input current	<0.2A
Input Frequency	47-63Hz
Turn on delay time	≤500ms
No-load power consumption	≤1W
Inrush current	<50A
Power Factor	≥0.9
THD	≤20%
Short Circuit Protection	Hiccup mode; No damage will occur to the driver and will be restored when fault condition is removed
Over Voltage Protection	50V; Hiccup mode; No damage will occur to the driver and will be restored when fault condition is removed
Output ripple(peak to peak)	<4V Note 1
Leakage current	<0.75mA
MTBF	200,000 hours at 25°C ambient temperature

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### ■ Technical Data(cont.)

Operation temperature	-40°C to 40°C
Storage Temperature	-40°C to 85°C
Humidity	10% to 90%
Case size	95x40x25.4mm
Packing	216pcs/carton

- Note: 10% of nominal output voltage, measured at 20MHz bandwidth with 0.1uF ceramic capacitor in parallel with 10uF electrolytic capacitor connected at the end of the output connector.

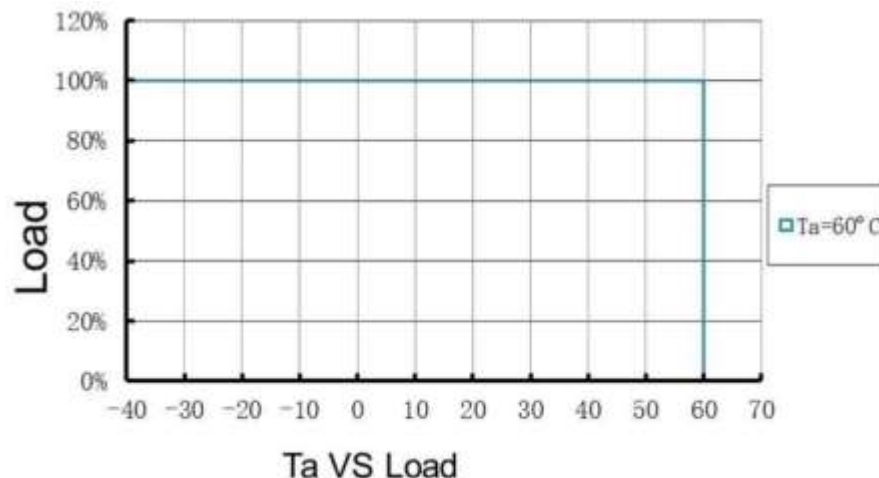
### ■ Safety Compliance

Safety Standards	UL8750/CAN/CSA-C22.2 NO. 250.13
EMC	EN55015 and FCC part 15 class B
Hi-Pot	I/P-O/P: 1.6KVac, 5mA, 60S
	I/P-FG: 1.5KVac, 5mA, 60S
	O/P-FG: 1.5KVac, 5mA, 60S
Lightning surge	IEC61000-4-5; L-N: 500V
Insulation Resistance	I/P-O/P; O/P-FG; I/P-FG; 100Mohm/500Vdc

#### 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.

### ■ Derating curve

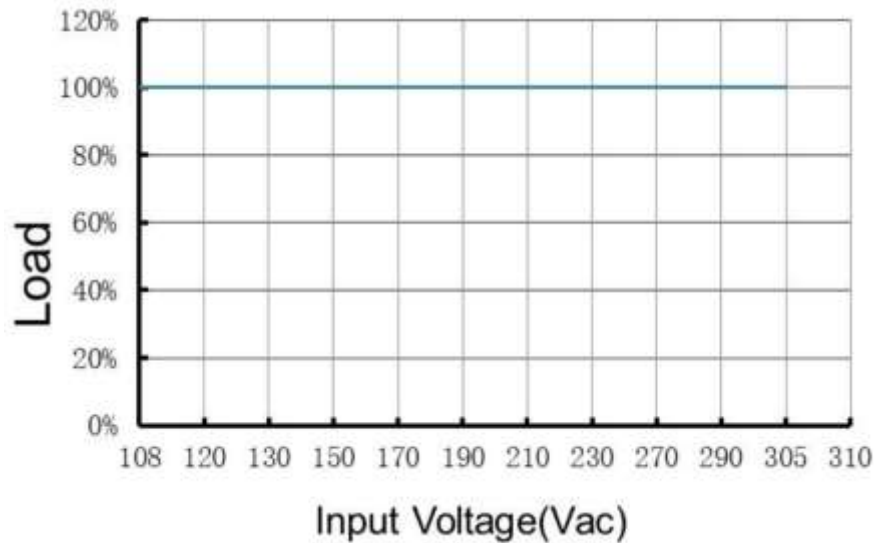


	-40°C	-25°C	0°C	25°C	45°C	60°C
120V	100%	100%	100%	100%	100%	100%
277V	100%	100%	100%	100%	100%	100%

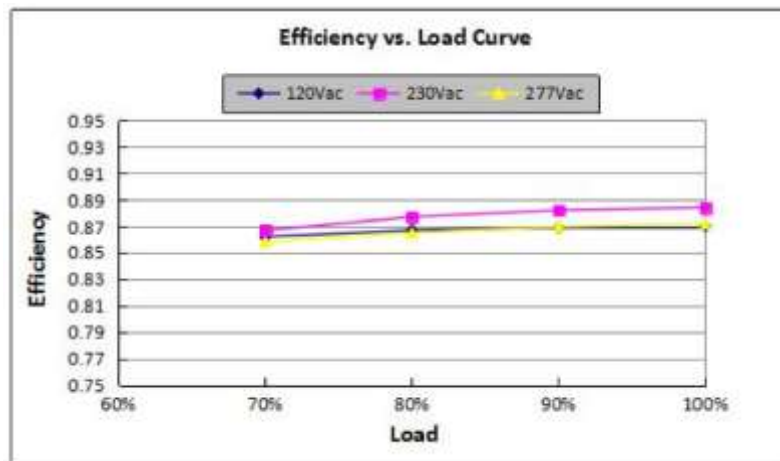
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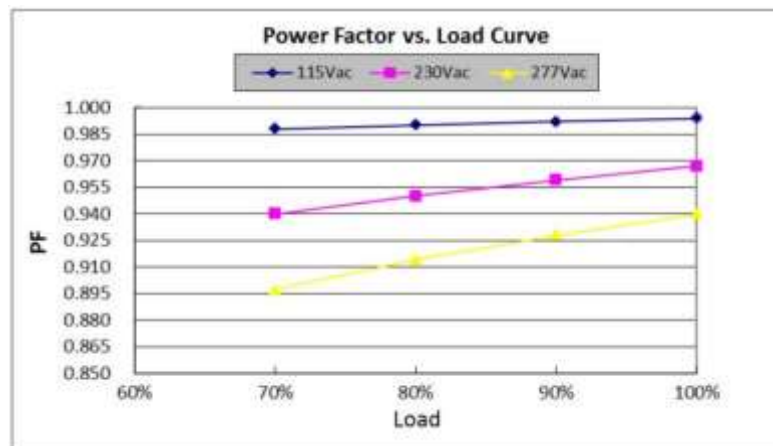
■ **Static characteristics**



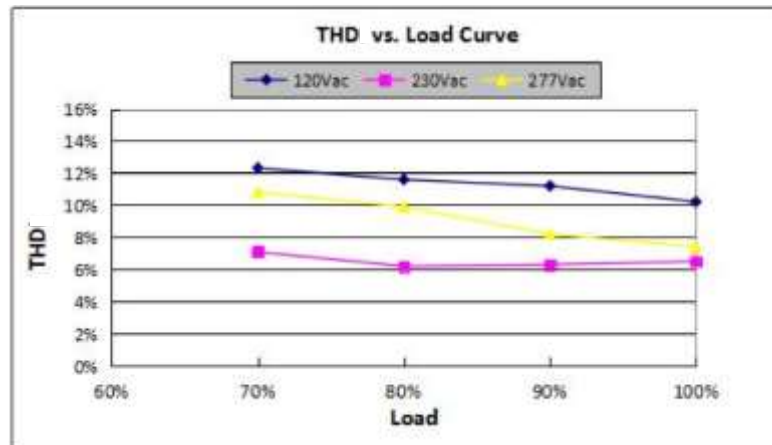
■ **Efficiency vs Load**



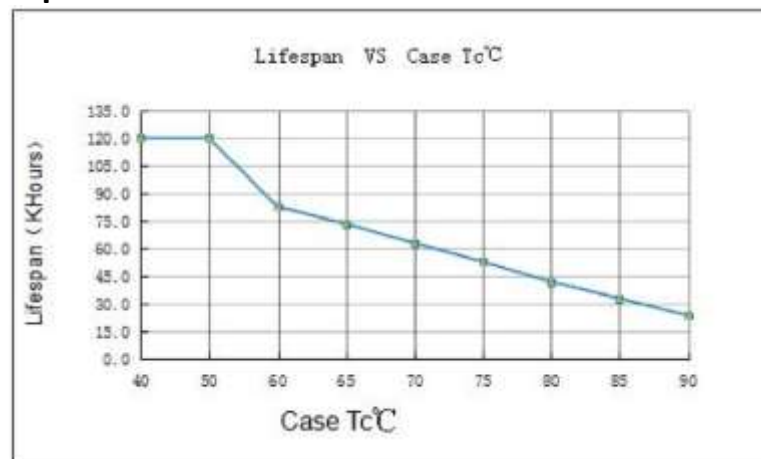
■ **Power Factor vs Load**



■ **THD vs Load**

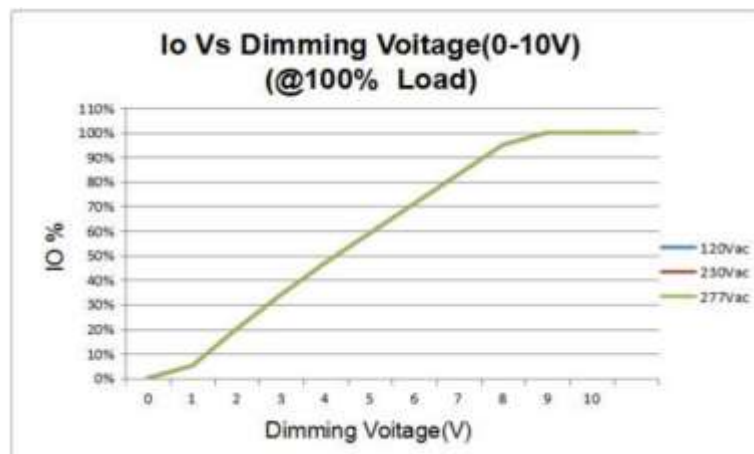


■ **Lifetime vs Case Temperature**



Case Temperature	50°C	60°C	65°C	70°C	75°C	80°C	85°C	90°C
Lifetime(Khours)	120	82.8	73.6	63	53	42	33	23.8

■ **Dimming Function**



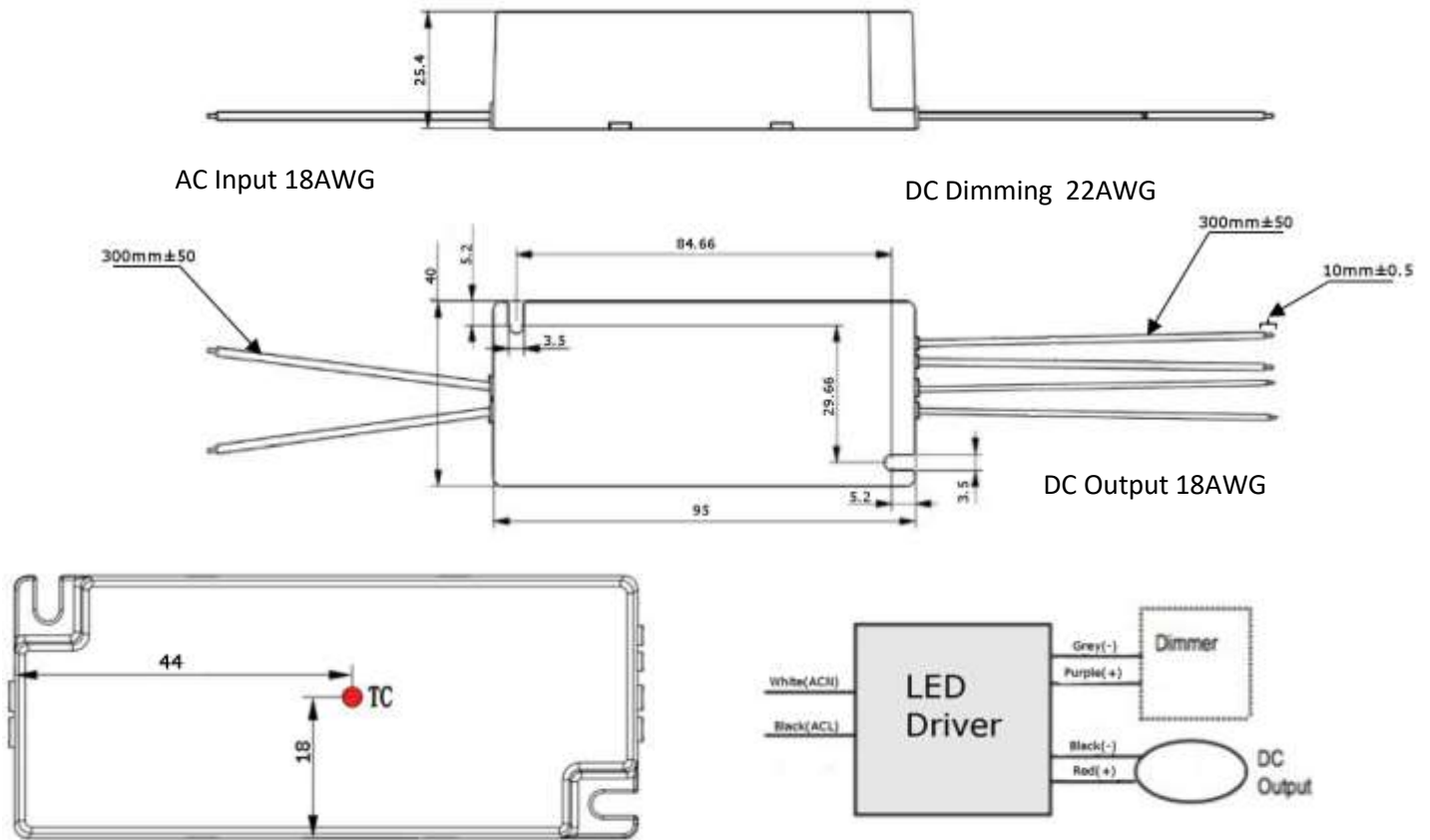
Dimming Voltage	0	1	2	3	4	5	6	7	8	9	10	OPEN
Percentage of Current	0%	5%	20%	34%	47%	59%	71%	80%	95%	100%	100%	95-105%

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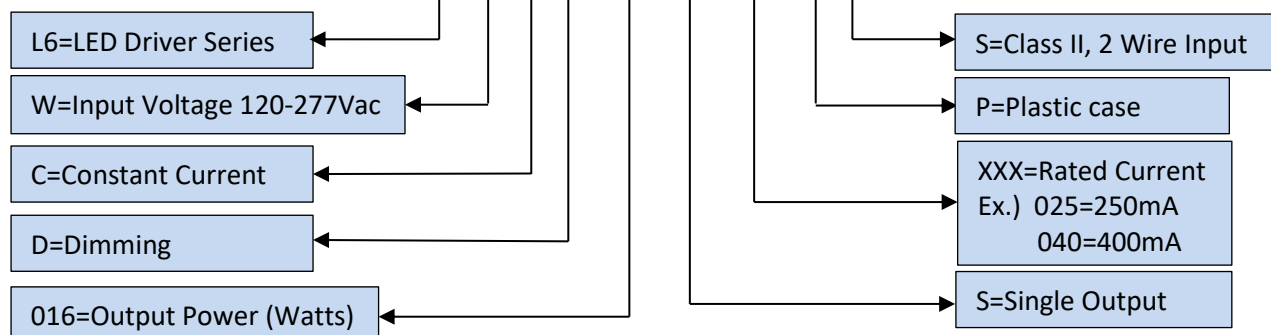
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■ **Mechanical Diagram**



**Part Number Scheme**

**L 6 W C D 016 S XXX P S**



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

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5 / 5