

■ **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



*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 |

Technical Sales / Customer Service: +1-818-338-7788 • Email: sales@autec.com
31328 Via Colinas Suite 102 • Westlake Village, CA 91362 USA • www.autec.com

June 18, 2019

■ **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.

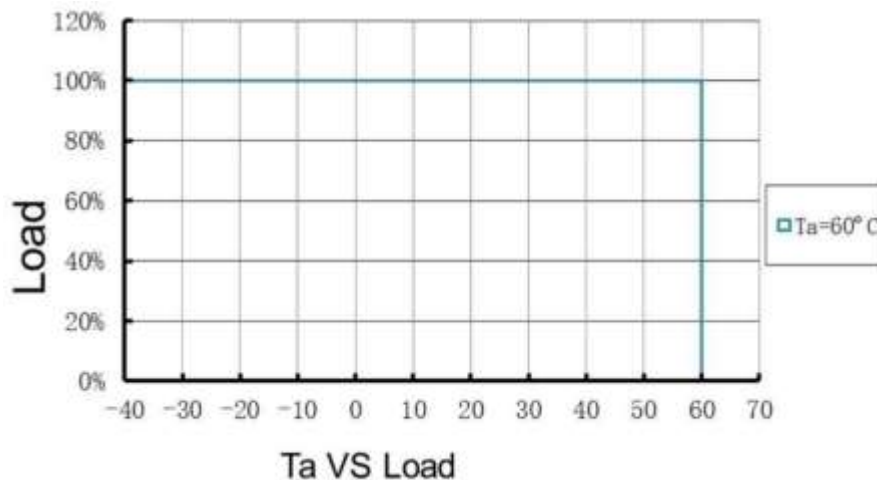
■ **Safety Compliance**

| | |
|-----------------------|---|
| 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**



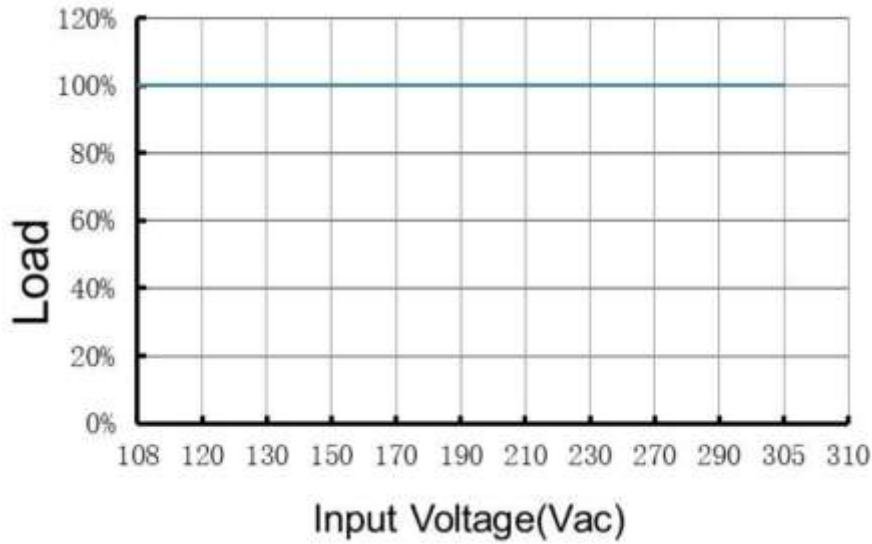
| | -40°C | -25°C | 0°C | 25°C | 45°C | 60°C |
|------|-------|-------|------|------|------|------|
| 120V | 100% | 100% | 100% | 100% | 100% | 100% |
| 277V | 100% | 100% | 100% | 100% | 100% | 100% |

Technical Sales / Customer Service: +1-818-338-7788 • Email: sales@autec.com

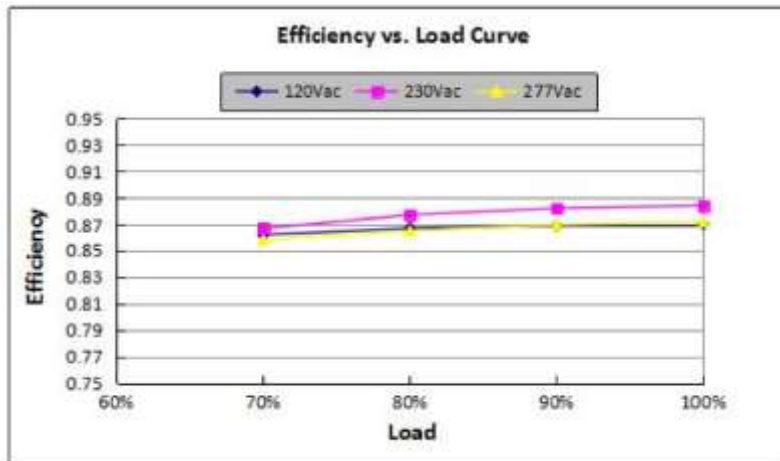
31328 Via Colinas Suite 102 • Westlake Village, CA 91362 USA • www.autec.com

June 18, 2019

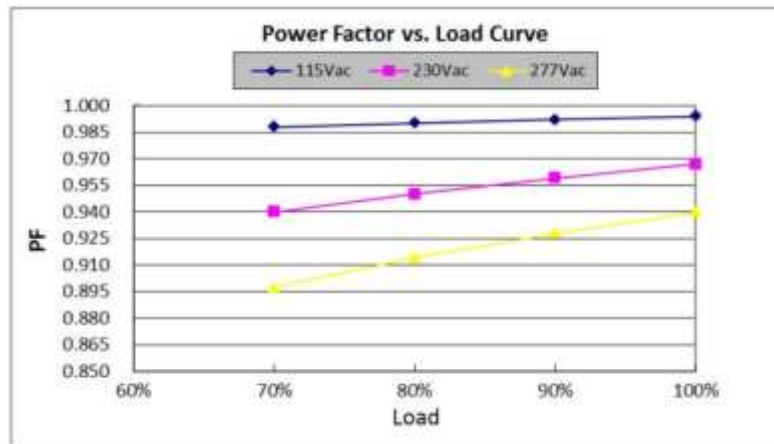
■ Static characteristics



■ Efficiency vs Load



■ Power Factor vs Load

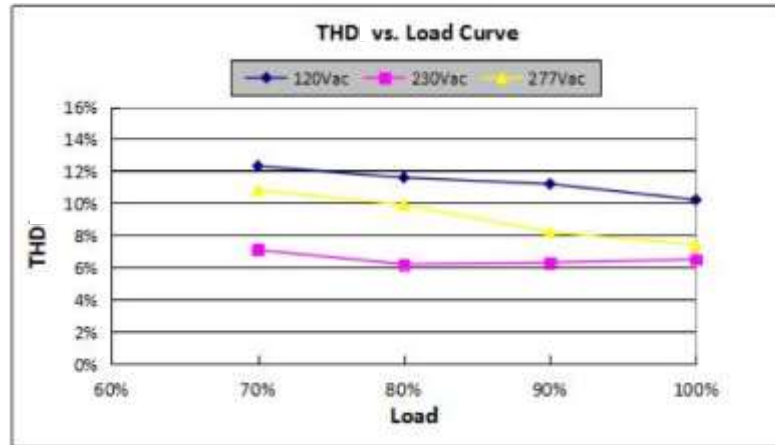


Technical Sales / Customer Service: +1-818-338-7788 • Email: sales@autec.com

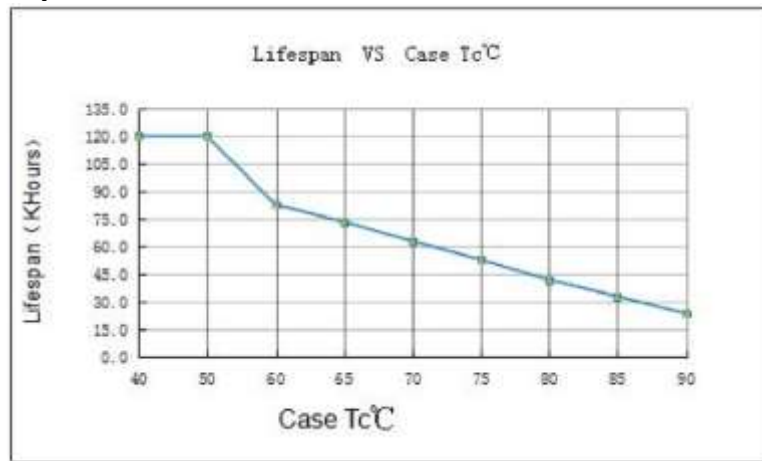
31328 Via Colinas Suite 102 • Westlake Village, CA 91362 USA • www.autec.com

June 18, 2019

■ THD vs Load

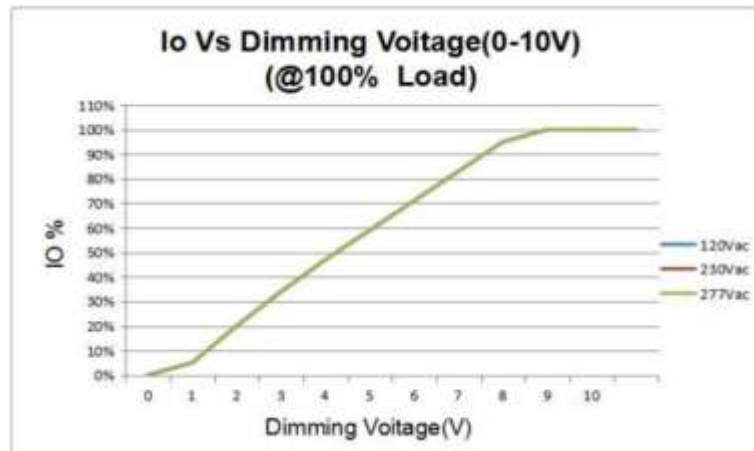


■ Lifetime vs Case Temperature



| | | | | | | | | |
|------------------|------|------|------|------|------|------|------|------|
| 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% |

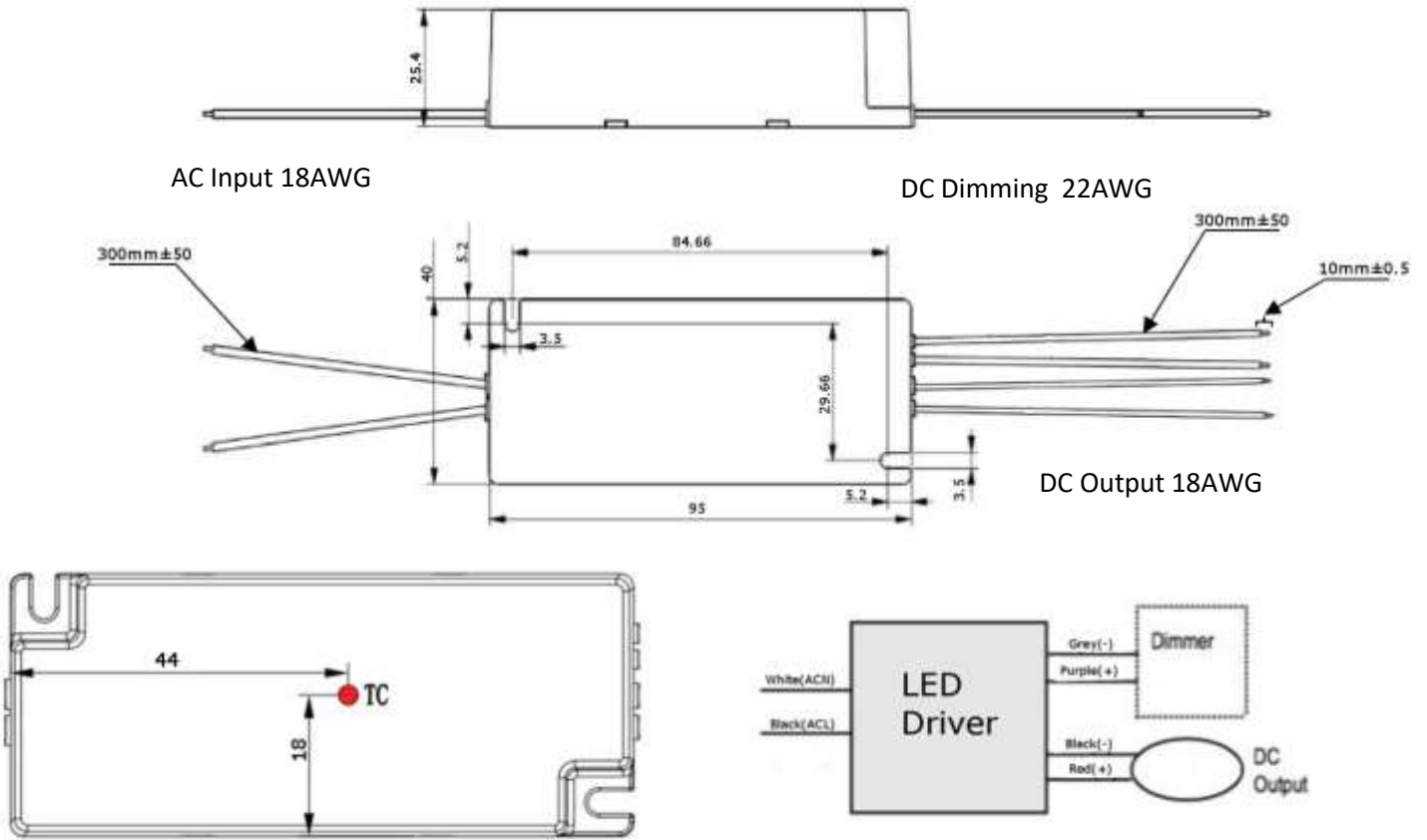
Technical Sales / Customer Service: +1-818-338-7788 • Email: sales@autec.com

31328 Via Colinas Suite 102 • Westlake Village, CA 91362 USA • www.autec.com

June 18, 2019

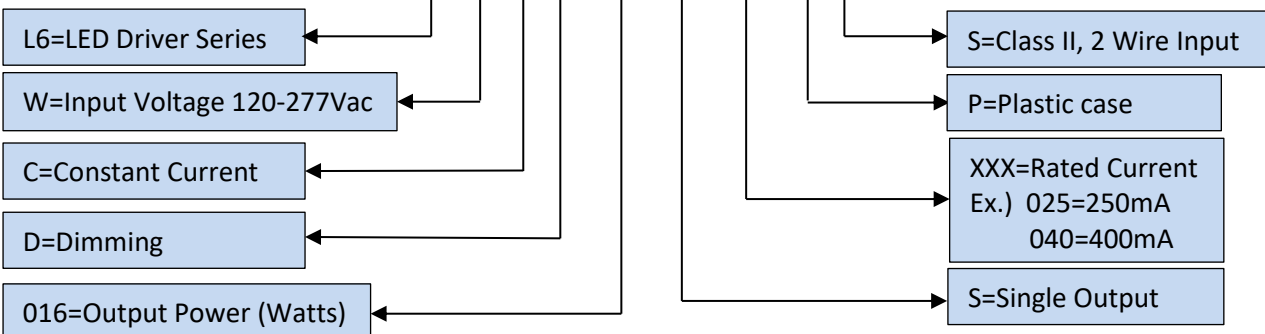
4 / 5

■ Mechanical Diagram



Part Number Scheme

L6 W C D 016 S XXX P S



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

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

Technical Sales / Customer Service: +1-818-338-7788 • Email: sales@autec.com

31328 Via Colinas Suite 102 • Westlake Village, CA 91362 USA • www.autec.com

June 18, 2019