

## ■ Features

- Power Rating: 22W
- Input Voltage: 120-277Vac  $\pm$  10%
- Constant current design
- Fixed output current(350mA-1100mA)
- Efficiency to 84%
- Dimmable with 0-10V dimmer
- UL Class 2, Class P, Type HL
- OVP, OCP, SCP
- IP20
- 5-year warranty
- Metal case



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

## ■ Application

- Indoor 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 |
|--------------------|----------------------|--------------|----------------|---------------------|---------------------|----------------------------------|---------------|
| LXWCD022S035SS-20* | 120~277Vac $\pm$ 10% | 22W          | 32-63V         | 350mA               | 350mA               | 84%@120V<br>83%@240V<br>83%@277V | -/-           |
| LXWCD022S040SS-20* | 120~277Vac $\pm$ 10% | 22W          | 28-55V         | 400mA               | 400mA               | 84%@120V<br>83%@240V<br>83%@277V | -/-           |
| LXWCD022S050SS-20* | 120~277Vac $\pm$ 10% | 22W          | 22-44V         | 500mA               | 500mA               | 84%@120V<br>83%@240V<br>83%@277V | UL/-          |
| LXWCD022S060SS-20* | 120~277Vac $\pm$ 10% | 22W          | 18-36V         | 600mA               | 600mA               | 84%@120V<br>83%@240V<br>83%@277V | UL/cUL        |
| LXWCD022S070SS-20* | 120~277Vac $\pm$ 10% | 22W          | 16-32V         | 700mA               | 700Ma               | 84%@120V<br>83%@240V<br>83%@277V | UL/cUL        |
| LXWCD022S080SS-20* | 120~277Vac $\pm$ 10% | 22W          | 14-28V         | 800mA               | 800mA               | 84%@120V<br>83%@240V<br>83%@277V | UL/cUL        |
| LXWCD022S090SS-20* | 120~277Vac $\pm$ 10% | 22W          | 12-24V         | 900mA               | 900mA               | 84%@120V<br>83%@240V<br>83%@277V | UL/cUL        |
| LXWCD022S100SS-20* | 120~277Vac $\pm$ 10% | 22W          | 12-22V         | 1000mA              | 1000mA              | 84%@120V<br>83%@240V<br>83%@277V | UL/cUL        |
| LXWCD022S110SS-20* | 120~277Vac $\pm$ 10% | 22W          | 12-20V         | 1100mA              | 1100mA              | 84%@120V<br>83%@240V<br>83%@277V | UL/cUL        |
| LXWCD022S140SS-20* | 120~277Vac $\pm$ 10% | 22W          | 12-22V         | 1400mA              | 1400mA              | TBD                              | UL/cUL        |

\*=Class P

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June 13, 2019

**■ Technical Data**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input voltage range       | 120~277Vac $\pm$ 10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Frequency                 | 50/60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Power factor              | > 0.9 under 120-277Vac input with 80-100% load condition (for all output currents)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Inrush current            | 30A @277V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Max input current         | 0.25A @120V, 0.14A@240V and 0.12A @277V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| THD                       | <20% under 120-277Vac input with 80-100% load condition (for all output currents)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Load regulation           | $\pm$ 2%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Line regulation           | $\pm$ 2%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Output tolerance          | $\pm$ 5% at full load condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Turn-on delay time        | <0.5s at full load condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Overshoot                 | <10% at full load condtion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| No load power consumption | <2W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Ripple & noise (pk-pk)    | <10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Withstand voltage         | Input to output, 2,800Vdc, 60Hz input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Leakage current           | Maximum 0.5mA at 277Vac, 60Hz input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Protection                | <p>Over voltage protection: Hiccup mode. Protection will trigger when load voltage exceed specified output voltage and will auto recover after the fault mode is removed.</p> <p>Over current protection: Hiccup mode. Protection will trigger when load current exceed specified output current and will auto recover after the fault mode is removed.</p> <p>Short circuit protection: Hiccup mode. Protection will trigger when short circuit and will auto recover after the fault mode is removed.</p> <p>Over temperature protection: Protection will trigger when driver overheat and auto-recovery when cooled down.</p> |
| Operating temperature     | -40 to 60°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Storage temperature       | -40 to 85°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Humidity                  | 5% to 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| MTBF                      | 510,000 hours at 40°C ambient (~70°C case temp)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Life rating               | 85,000 hours at 120Vac input, 100% load and 60°C case temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Maximum case Temperature  | 90°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Length (L)                | 6.46" (164mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Width (W)                 | 1.37" (34.80mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Height (H)                | 1.00" (25.4mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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## ■ Technical Data(cont.)

|              |                                                  |
|--------------|--------------------------------------------------|
| Mounting (M) | 6.00" (152.4mm)                                  |
| Packing      | 0.23kg / unit; 50pcs / carton; 2,000pcs / pallet |

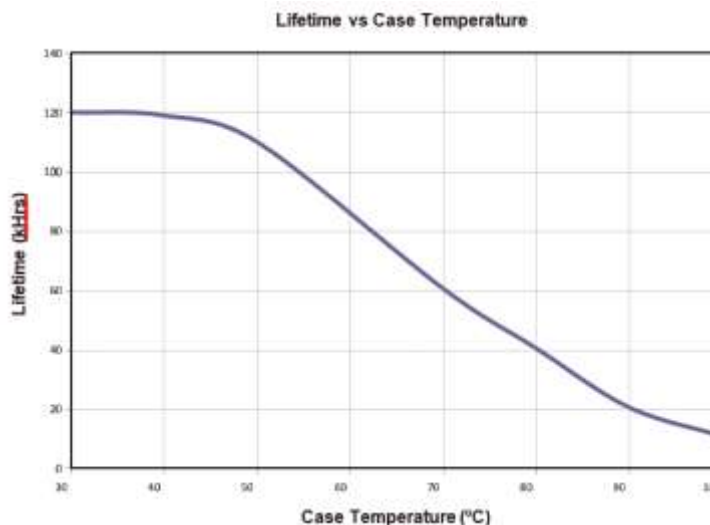
## ■ Safety Compliance

|                    |                                        |
|--------------------|----------------------------------------|
| UL/cUL             | UL 8750, Class P, Type HL              |
| CE                 | EN61347-1, EN61347-2-13                |
| FCC, 47CFR Part 15 | ANSI C63.4:2009 Class B Consumer Limit |
| EN61000-3-2        | Harmonic Current Emissions Class C     |

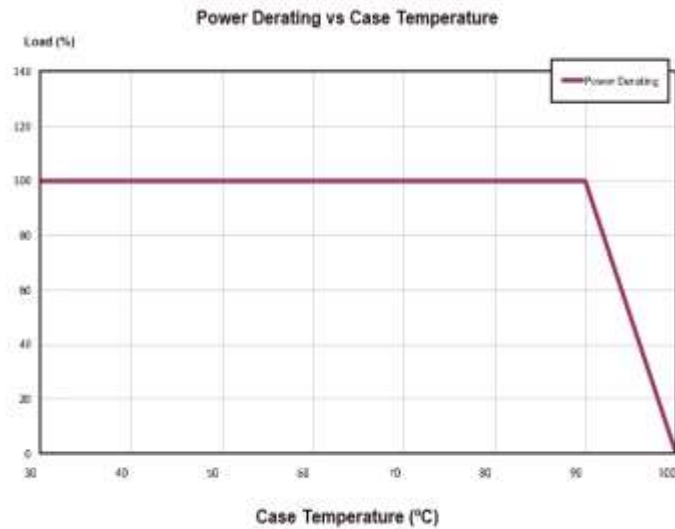
### Disclaimer:

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.

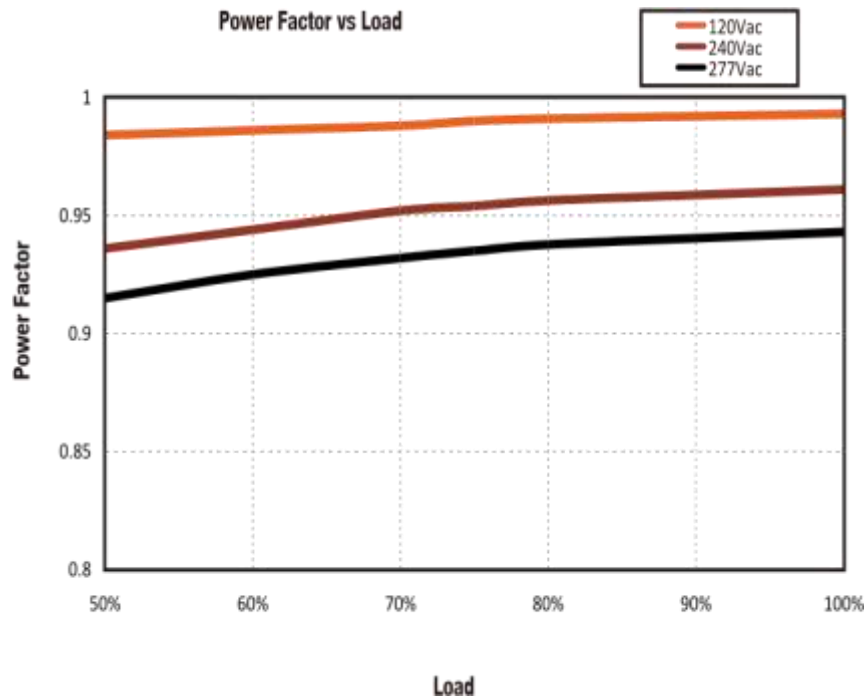
## ■ Lifetime vs Case Temperature



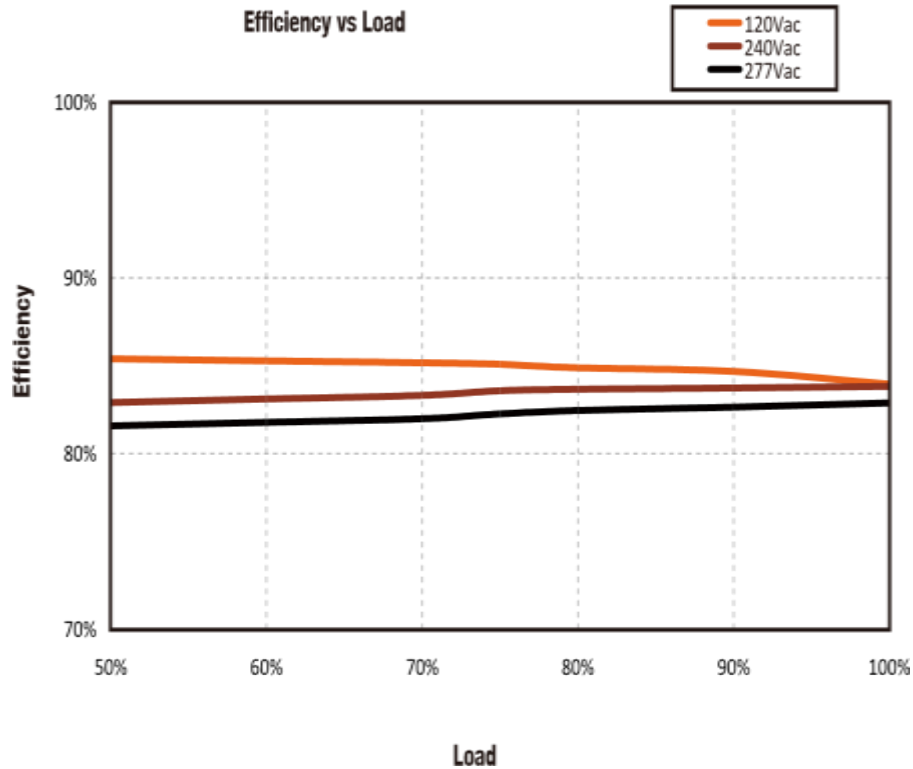
## ■ Power Derating vs Case Temperature



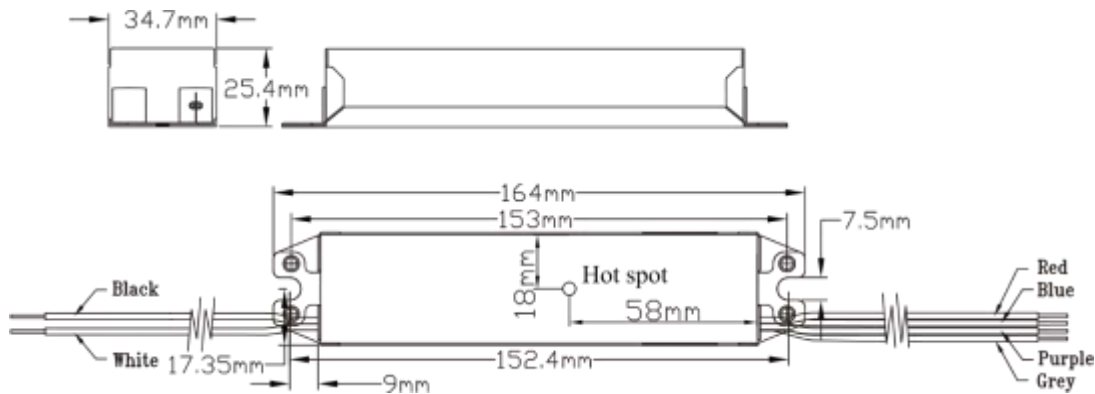
## ■ Power Factor vs Load

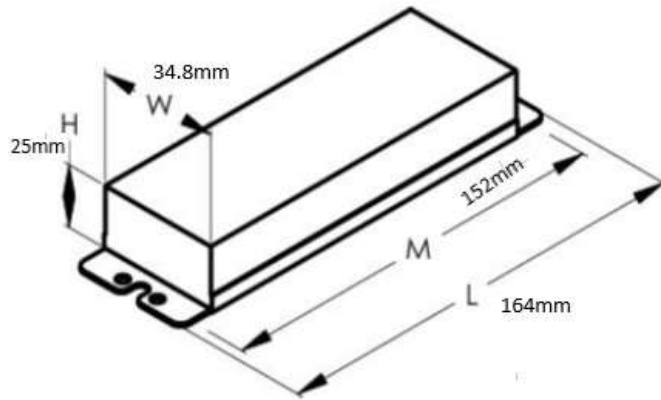


## ■ Efficiency vs Load

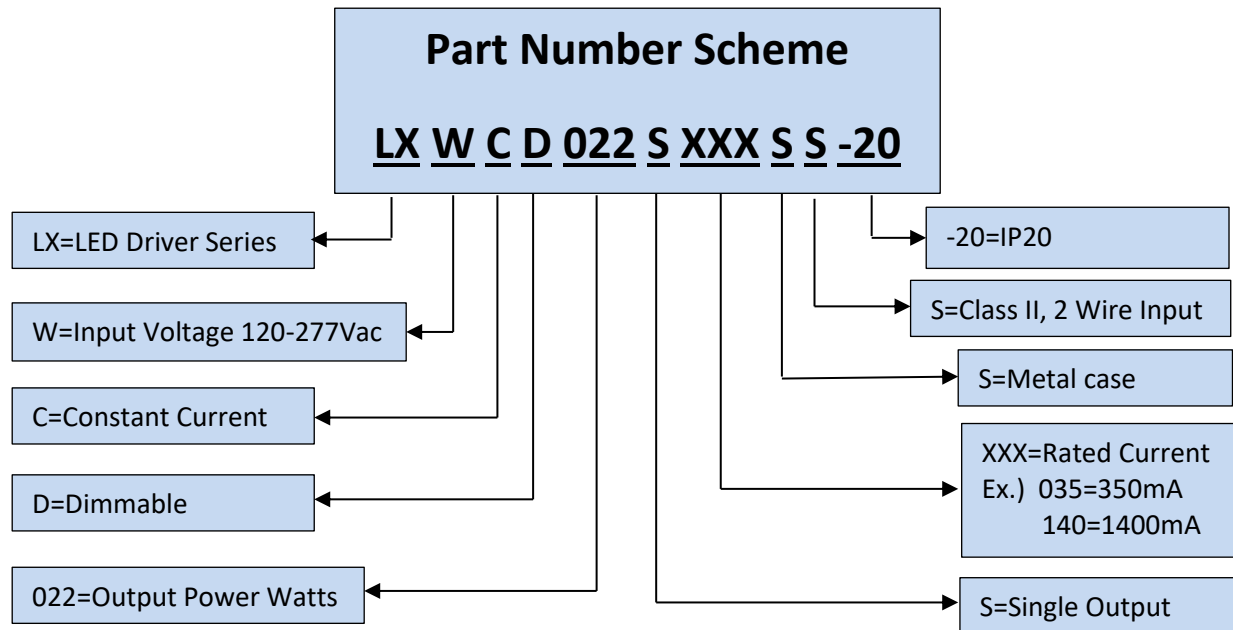


## ■ Wiring Diagram





| Wire Specifications |                                                    |
|---------------------|----------------------------------------------------|
| Input               | 12", UL 1316 #18AWG (Black and White)              |
| Output              | UL 1569 #18AWG (with Non-Class 2 output)           |
| Output              | 12", UL 1316/1430 #22AWG (with Class 2 output)     |
| Dimming             | Dimming: 12" UL 1316/1430 #22AWG (Purple and Grey) |



**\*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.**

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