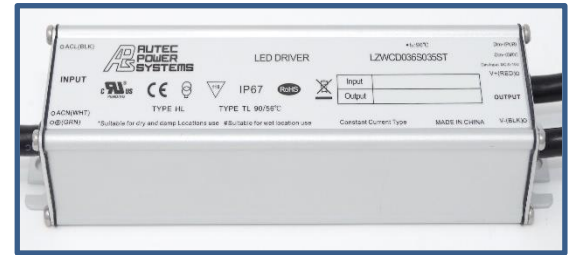


## ■ Features

- Power Rating: 36W
- Input Voltage: 100-277Vac
- Constant current design
- Fixed output current(350mA-1400mA)
- Efficiency to 88.5%
- Dimmable with 0-10V dimming (optional)
- UL Class 2 output options available
- OTP, SCP, OVP, and lightning protection
- IP67



IP67     

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

## ■ Application

- Indoor: Bay lights, explosion-proof lights and others
- Outdoor lighting: street lights , tunnel lights, landscaping lights, garden lights and others

## ■ 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 |
|-----------------|---------------------|--------------|----------------|---------------------|---------------------|------------|---------------|
| LZWCD036S035ST  | 100-277Vac          | 36W          | 62-103V        | 350mA               | 350mA               | 87.5%      | CE FCC UL     |
| LZWC-036S035ST  | 100-277Vac          | 36W          | 62-103V        | 350mA               | 350mA               | 87.5%      | CE FCC UL     |
| LZWCD036S050ST  | 100-277Vac          | 36W          | 43-72V         | 500mA               | 500mA               | 88.5%      | CE FCC UL     |
| LZWC-036S050ST  | 100-277Vac          | 36W          | 43-72V         | 500mA               | 500mA               | 88.5%      | CE FCC UL     |
| LZWCD036S070ST* | 100-277Vac          | 36W          | 31-52V         | 700mA               | 700mA               | 88.5%      | CE FCC UL     |
| LZWC-036S070ST* | 100-277Vac          | 36W          | 31-52V         | 700mA               | 700mA               | 88.5%      | CE FCC UL     |
| LZWCD036S105ST* | 100-277Vac          | 36W          | 20-34V         | 1050mA              | 1050mA              | 86%        | CE FCC UL     |
| LZWC-036S105ST* | 100-277Vac          | 36W          | 20-34V         | 1050mA              | 1050mA              | 86%        | CE FCC UL     |
| LZWCD036S140ST* | 100-277Vac          | 36W          | 15-26V         | 1400mA              | 1400mA              | 85%        | CE FCC UL     |
| LZWC-036S140ST* | 100-277Vac          | 36W          | 15-26V         | 1400mA              | 1400mA              | 85%        | CE FCC UL     |

Note: “-” = Non-Dimming, D=Dimming, \*Class 2 outputs

## ■ Technical Data

|                     |                                                                              |
|---------------------|------------------------------------------------------------------------------|
| Input voltage range | 100-277Vac                                                                   |
| Frequency           | 47~63Hz                                                                      |
| Power factor        | >0.9@60-100% load, refer to PF vs Load curve                                 |
| Max input current   | 0.55A max. @110Vac & full load; 0.3A max. @230Vac & full load                |
| THD                 | <15%@100% load, refer to THD vs Load curve                                   |
| Inrush current      | 65A peak, 1.2ms duration@230Vac 25°C<br>70A peak, 1.3ms duration@277Vac 25°C |
| Leakage current     | 1mA max. @277Vac 60Hz<br>0.75mA max @240Vac 50Hz                             |
| Current Accuracy    | ±5%                                                                          |

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**■ Technical Data(cont.)**

|                             |                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------|
| Ripple current              | 50%Io, peak to peak value                                                             |
| Turn-on Delay time          | 1.5s                                                                                  |
| Overshoot                   | 10%Io                                                                                 |
| Over voltage protection     | 120%Vomax                                                                             |
| Over temperature protection | Decrease output current until over temperature state is removed                       |
| Short circuit protection    | Protection type: hiccup mode, recovers automatically after fault condition is removed |
| Operating temperature       | -40 ~ 70°C;                                                                           |
| Storage temperature         | -40 ~ 85°C; 5%RH ~ 100%RH                                                             |
| Humidity operational        | 10% ~ 100%RH                                                                          |
| Humidity storage            | 5% to 100%RH                                                                          |
| MTBF                        | >315,000 hours @230Vac & 80% Load                                                     |
| Life rating                 | >50,000 hours                                                                         |
| Maximum case Temperature    | 90°C                                                                                  |
| Length (L)                  | 6.77" (172mm)                                                                         |
| Width (W)                   | 1.67" (42.5mm)                                                                        |
| Height (H)                  | 1.34" (34mm)                                                                          |
| Weight                      | 500g                                                                                  |

**Notes:**

1. Unless specified, all the test results are measured in the 25°C ambient temperature.
2. The results vary according to different LED load characteristics.
3. Please confirm working conditions according to the derating curve of output power vs. input voltage and temperature. LED driver recommended for its intended use only, do not exceed data sheet specifications.
4. Refer to lifetime vs. Tc curve.
5. Contact Autec Sales for Tc location.

## ■ Safety Compliance

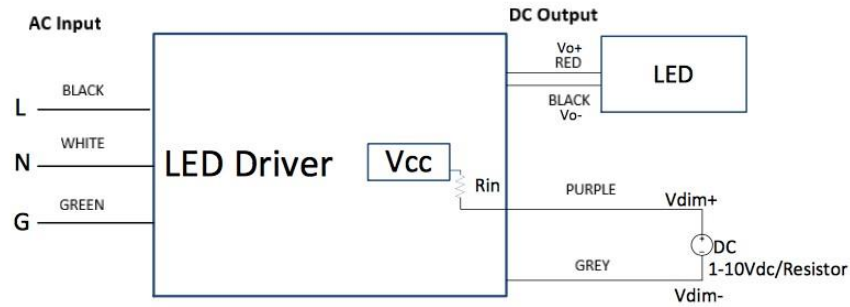
| Safety Category | Standard                                                                                                           |
|-----------------|--------------------------------------------------------------------------------------------------------------------|
| UL 8750         | Light Emitting Diode(LED) Equipment for Use in lighting Products                                                   |
| UL 1012         | Power Unit Other Than Class 2                                                                                      |
| UL 1310         | Class 2 Power Units                                                                                                |
| IEC 61347-1     | Lamp Control Gear Part 1: General and Safety Requirements                                                          |
| IEC 61347-2-13  | Lamp Control Gear Part 2-13: Particular Requirements for DC or AC Supplied Electronic Control Gear for LED Modules |
| EMI Standards   | Notes                                                                                                              |
| IEC 55015       | Conducted emission test & Radiated emission test                                                                   |
| IEC 61000-3-2   | Harmonic current emissions; Class ( $\geq 75\%$ load)                                                              |
| IEC 61000-3-3   | Voltage fluctuations and flicker                                                                                   |
| FCC Part 15     | Voltage fluctuations & flicker                                                                                     |
| IEC 61000-4-2   | Electrostatic discharge (ESD)                                                                                      |
| EMS Standards   | Notes                                                                                                              |
| IEC 61000-4-3   | Radio frequency electromagnetic field susceptibility test (RS)                                                     |
| IEC 61000-4-4   | Electrical fast transient (EFT)                                                                                    |
| IEC 61000-4-5   | Surge immunity test L-N:2kV; LN-PE;4kV                                                                             |
| IEC 61000-4-6   | Conducted radio frequency disturbances test (CS)                                                                   |
| IEC 61000-4-8   | Power frequency magnetic field test                                                                                |
| IEC 61000-4-11  | Voltage dips                                                                                                       |
| IEC 61547       | Electromagnetic immunity requirements applies to lighting equipment                                                |

## ■ Dimming

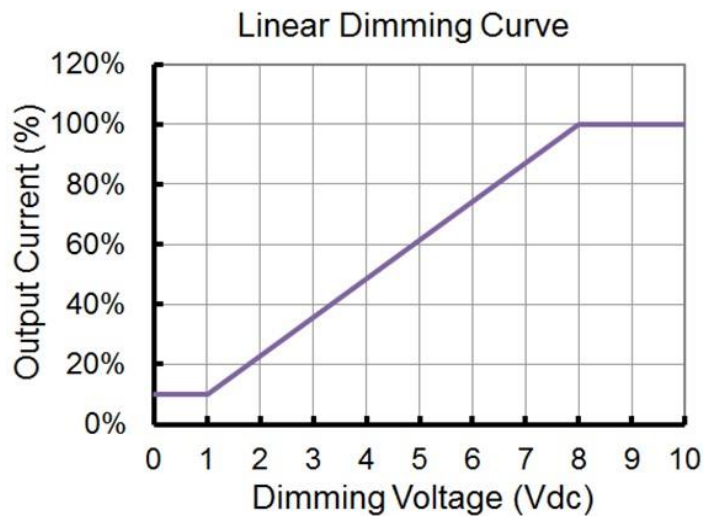
| Parameter                                             | Min. | Typ.     | Max. |
|-------------------------------------------------------|------|----------|------|
| Rin                                                   | -    | 100 kOhm | -    |
| Absolute maximum voltage range on the 0-10V input pin | -20V | -        | 20V  |
| Dimming range                                         | 10%  | -        | 100% |

The dimmer control is operated from an input signal of 0-10Vdc. Recommended implementations are provided below.

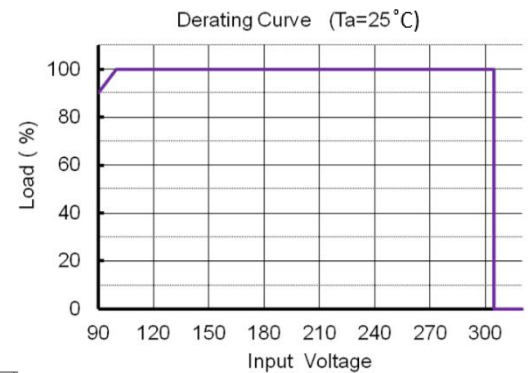
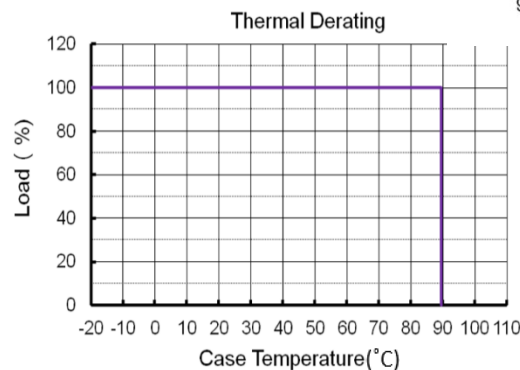
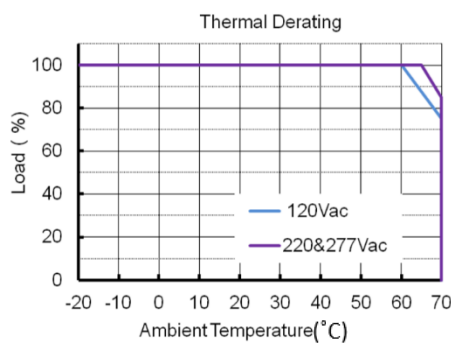
## ■ Wiring Diagram



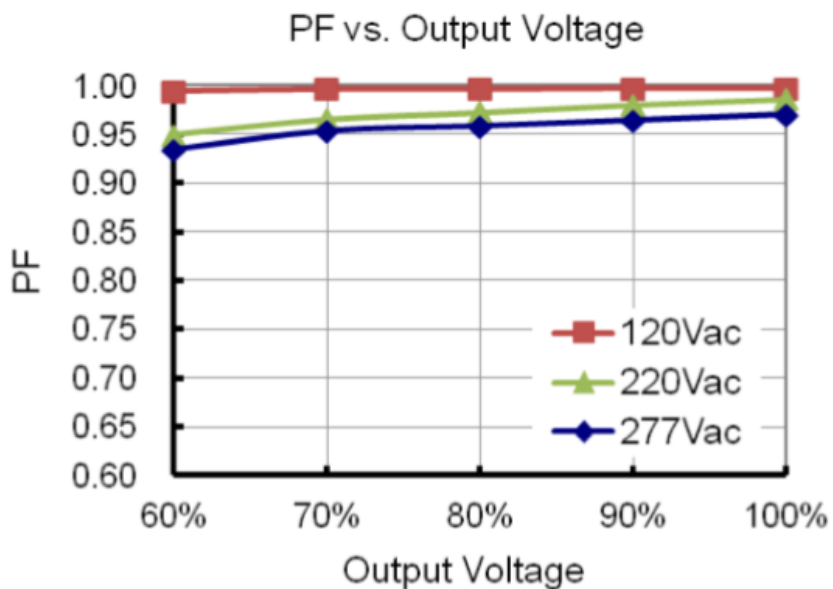
## ■ Dimming Curve



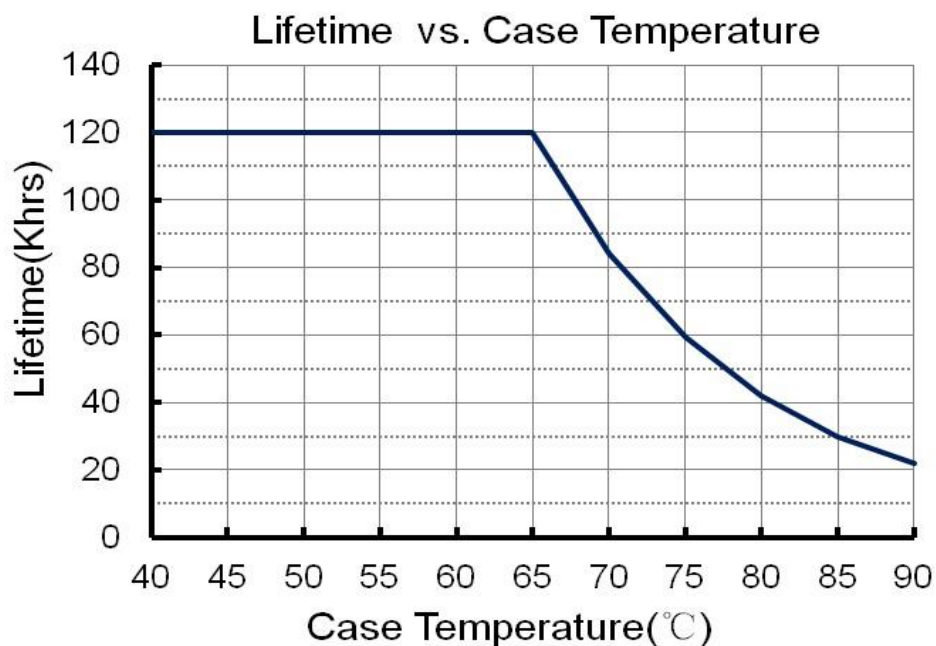
## ■ Derating Curve



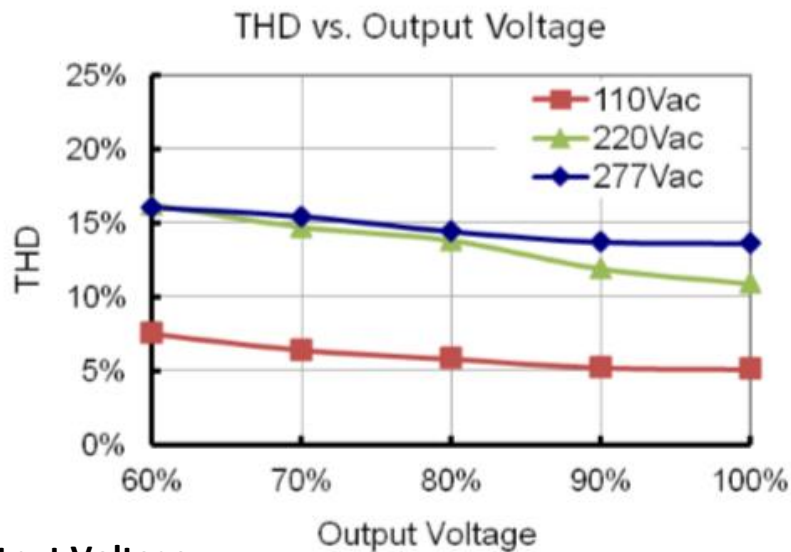
■ Power Factor vs Output Voltage



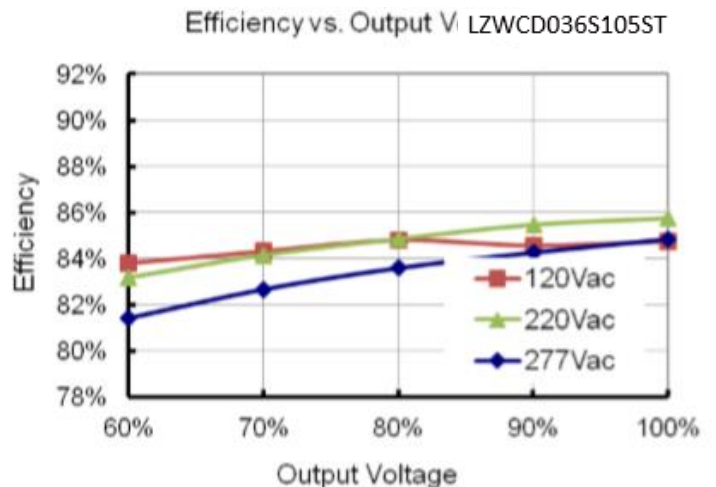
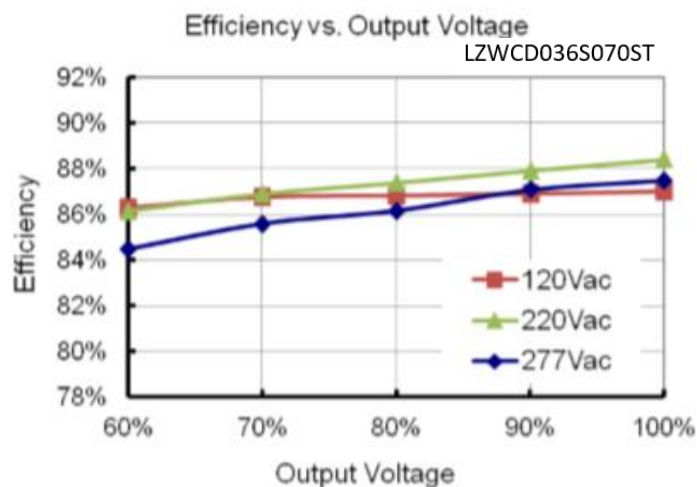
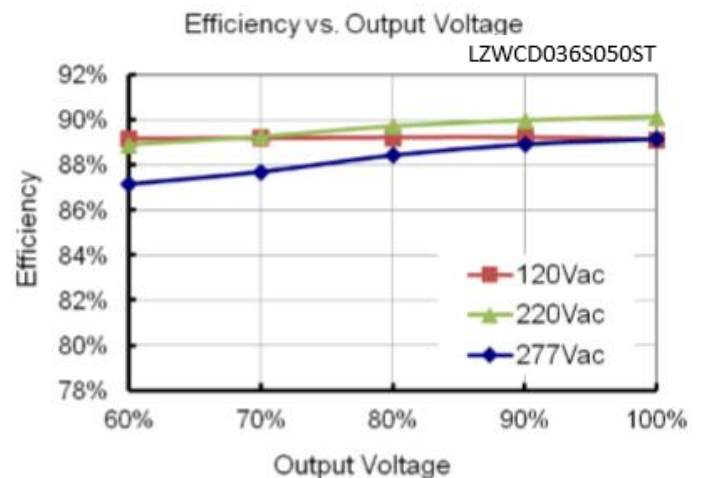
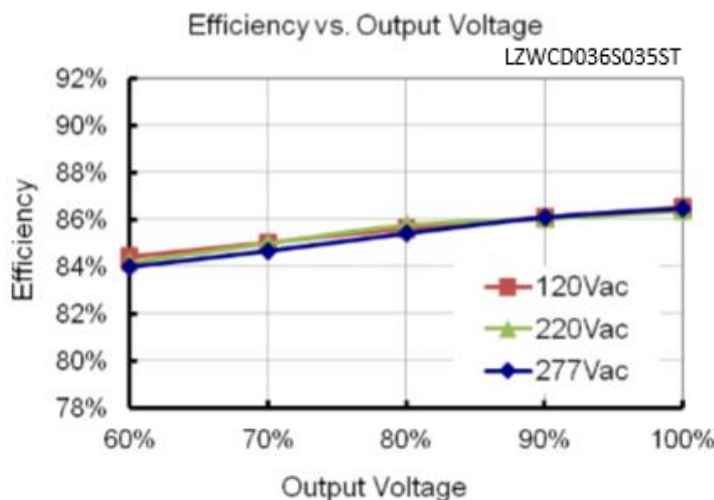
■ Lifetime vs Case Temperature



■ **THD vs Load**



■ **Efficiency vs Output Voltage**

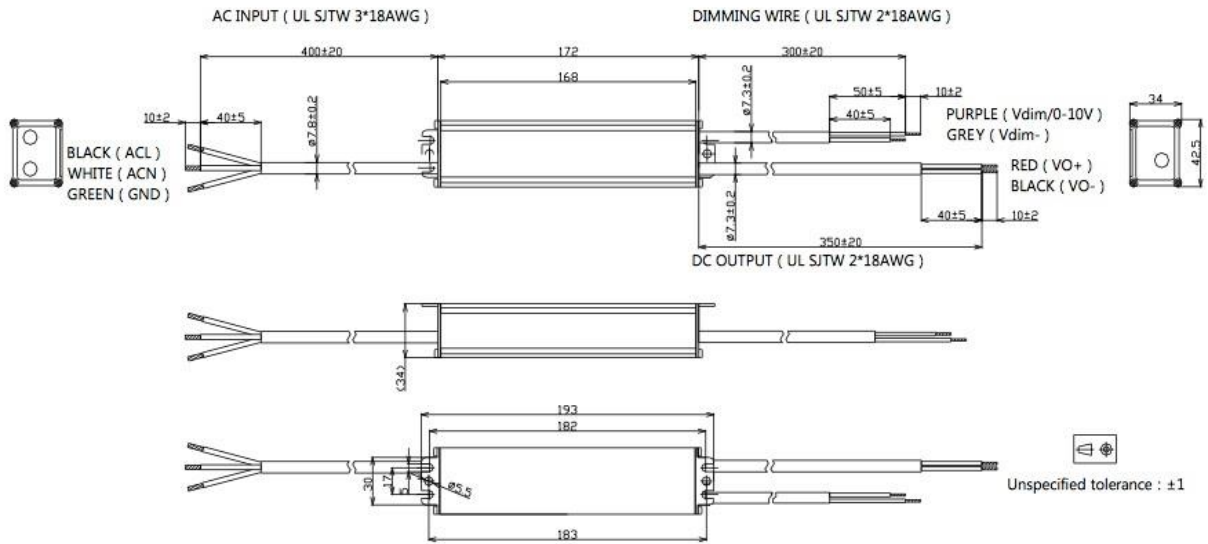


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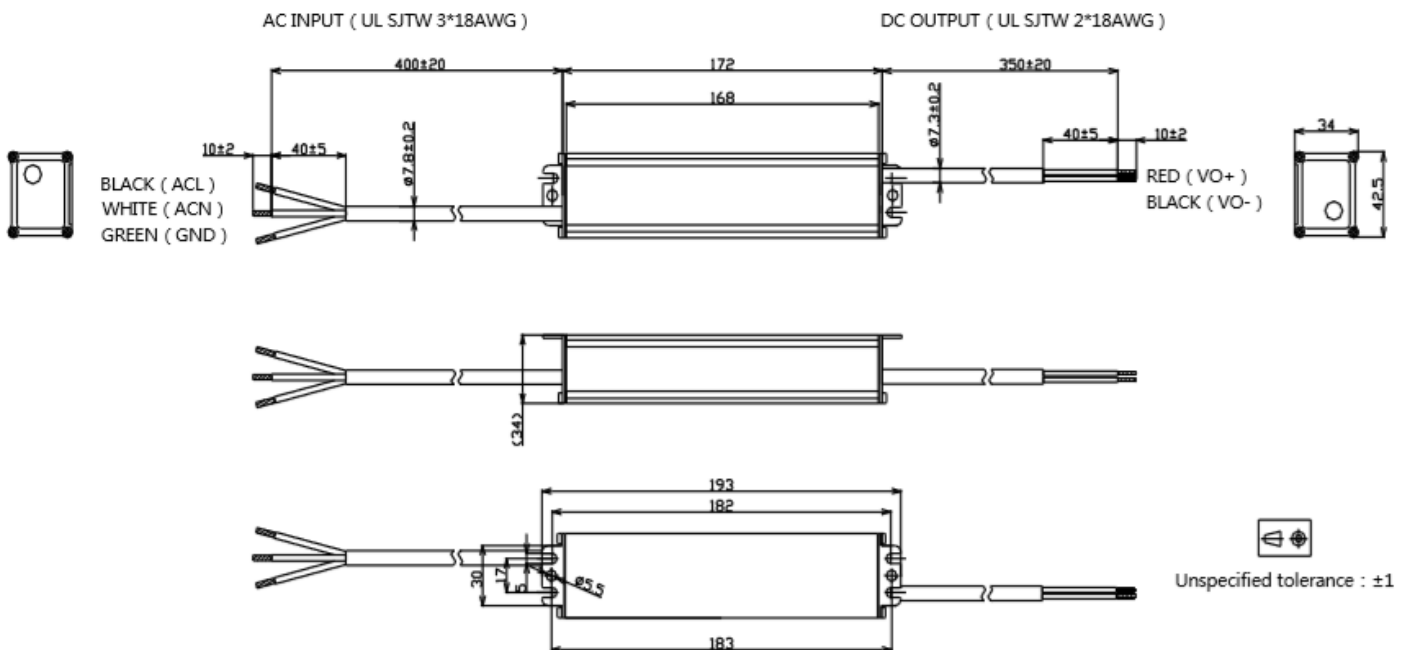
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## ■ Mechanical Diagram Dimming

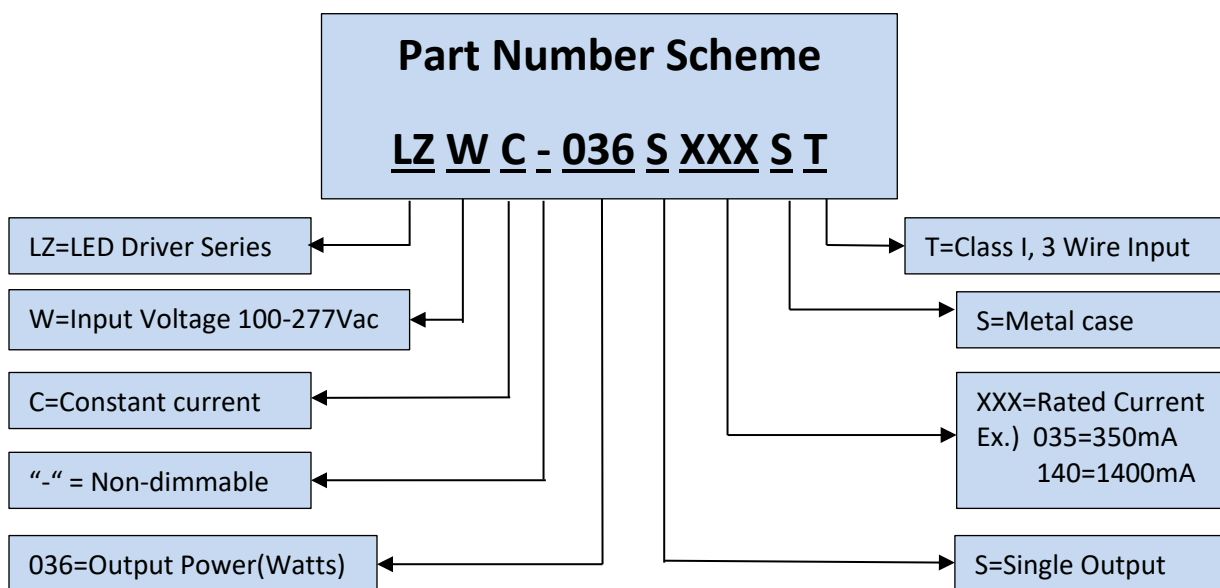
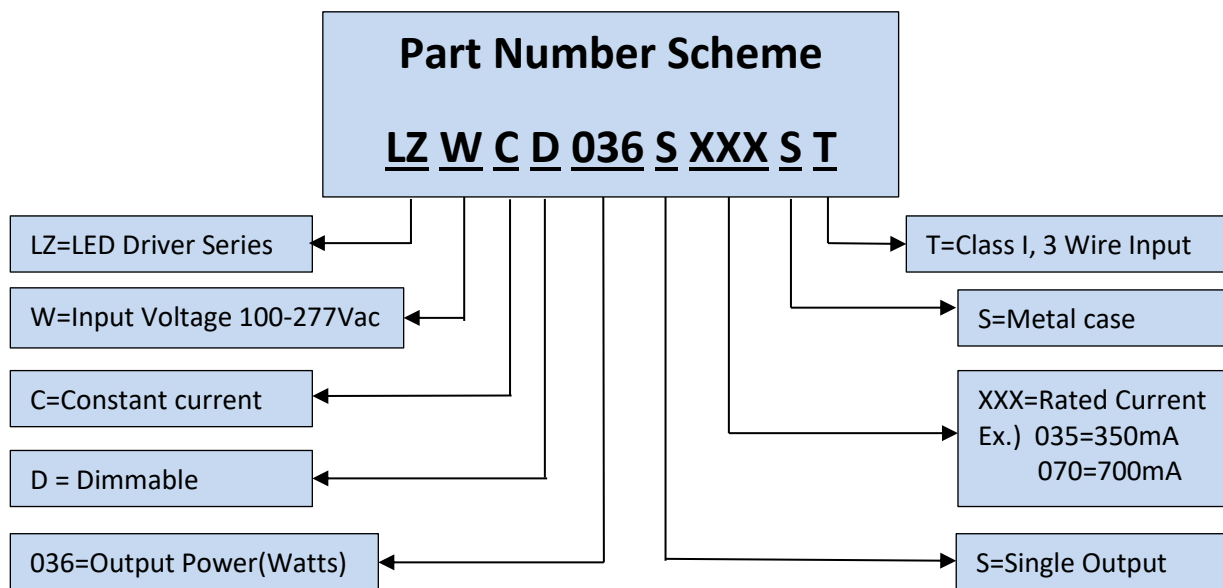


### ■ Mechanical Diagram Non-Dimming



Note: Please make sure the output cable does not connect to dimming cable or the cables of other drivers until 20 seconds after being tested because of the remained voltage in the output capacitor.





**\*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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