

■ Features

- Power Rating: 52W
- Input Voltage: 100-277Vac
- Constant current design
- Efficiency up to 88.5%
- Dimmable with 0-10V dimming (optional)
- UL Class 2 output options available
- OTP, SCP, Output over voltage, Input under voltage
- IP67



IP67      

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

■ Application

- Indoor Applications: Bay Lights, Explosion-proof lights and others
- Outdoor Applications: Street lights, tunnel lights, landscape 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
LZWCD052S035ST	100-277Vac	52W	89-149V	350mA	350mA	88.5%	CE FCC UL
LZWC-052S035ST	100-277Vac	52W	89-149V	350mA	350mA	88.5%	CE FCC UL
LZWCD052S070ST	100-277Vac	51.8W	44-74V	700mA	700mA	88%	CE FCC UL
LZWC-052S070ST	100-277Vac	51.8W	44-74V	700mA	700mA	88%	CE FCC UL
LZWCD052S105ST*	100-277Vac	52.5W	30-50V	1050mA	1050mA	88%	CE FCC UL
LZWC-052S105ST*	100-277Vac	52.5W	30-50V	1050mA	1050mA	88%	CE FCC UL
LZWCD052S140ST*	100-277Vac	51.8W	22-37V	1400mA	1400mA	87%	CE FCC UL
LZWC-052S140ST*	100-277Vac	51.8W	22-37V	1400mA	1400mA	87%	CE FCC UL

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

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■ Technical Data

Input voltage range	100-277Vac
Frequency	47~63Hz
Power factor	> 0.9 80~100% load condition
Inrush current	65A peak 1.2ms duration @230Vac 25°C 70A peak, 1.3ms duration @277Vac 25°C < 5.0A ² @230Vac, 25°C Cold Start
Max input current	0.65A max. @100Vac & full load; 0.3A max. @230Vac & full load
THD	< 15% @80~100% load
Overshoot	10%Io
Ripple & Noise (pk-pk)	50%Io, peak to peak value
Leakage current	1mA max. @277Vac 60Hz, UL 8750 0.75mA max. @240Vac 50Hz, IEC61347-1
Protection	Output Over Voltage: 120%Vomax Input Under Voltage: Shut down when Vmains≤85±5Vac; Auto recovery when Vmains≥90±5Vac. Over Temperature: Decrease output current until over temperature state is removed. Short Circuit: Auto recovery. The output recovers when short is removed.
Operating temperature	-40 ~ 70°C; 10%RH ~ 100%RH
Storage temperature	-40 ~ 85°C; 5%RH ~ 100%RH
Humidity	5% to 95%
MTBF	≥320,000 hours measured at 230Vac input, 80% load and 25°C ambient temperature(MIL-HDBK-217F)
Life rating	≥50,000 hours measured at 230Vac input, 80% load and 75°C case temperature
Maximum case Temperature	90°C
Length (L)	7.59" (172mm)
Width (W)	1.67" (42.5mm)
Height (H)	1.34" (34mm)
Weight	480g

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. Tc point is marked on the product label. The label is also listed in the specification for approval.

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■ Safety Compliance

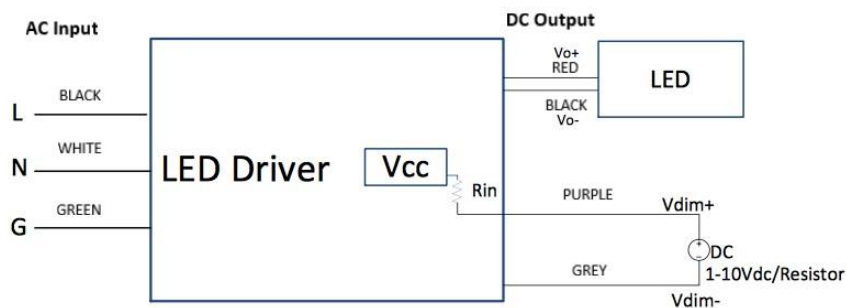
Safety Category	Standard
UL 8750	Light Emitting Diode(LED) Equipment for Use in lighting Products
UL 1012	Power Unit Other Than Class 2
UL 1310	Class 2 Power Units
IEC 61347-1	Lamp Control Gear Part 1: General and Safety Requirements
IEC 61347-2-13	Lamp Control Gear Part 2-13: Particular Requirements 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 & flicker
FCC Part 15	Class B
EMS Standards	Notes
IEC 61000-4-2	Electrostatic discharge (ESD)
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

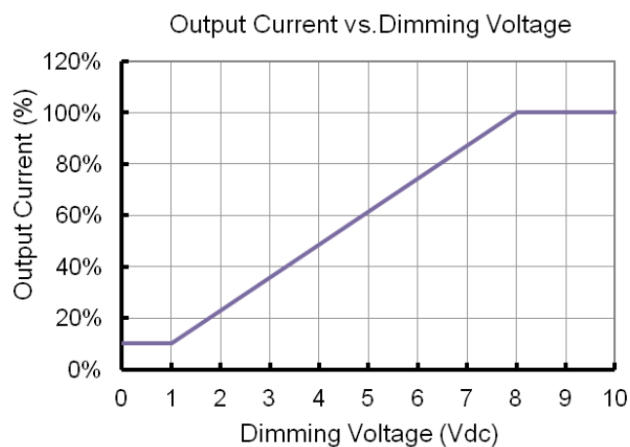
The dimmer control is operated from an input signal of 0-10Vdc. Recommended implementations are provided below.

Parameter	Min.	Typ.	Max.
Vcc	-	12.5	-
Rin	-	51kOhm	-
Absolute maximum voltage range on the 0-10V input pin	-20V	-	20V
Dimming range	10%	-	100%

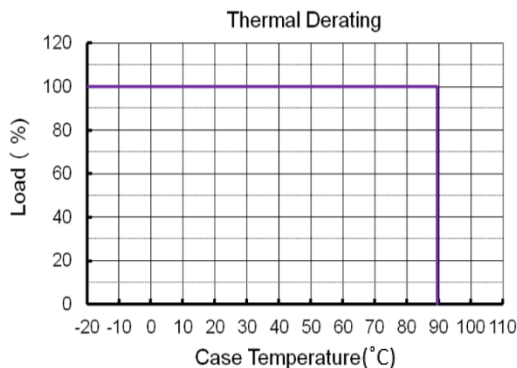
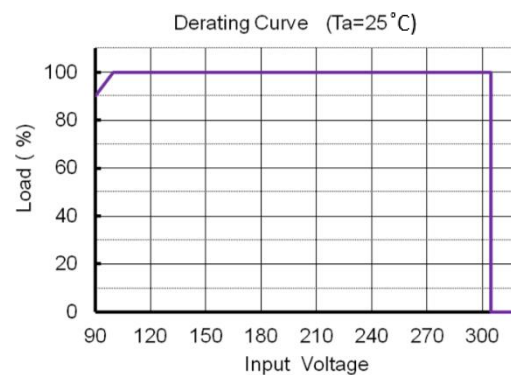
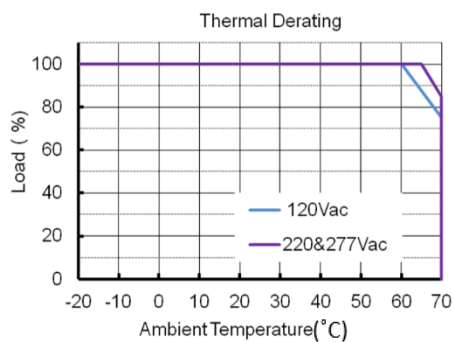
■ Wiring Diagram



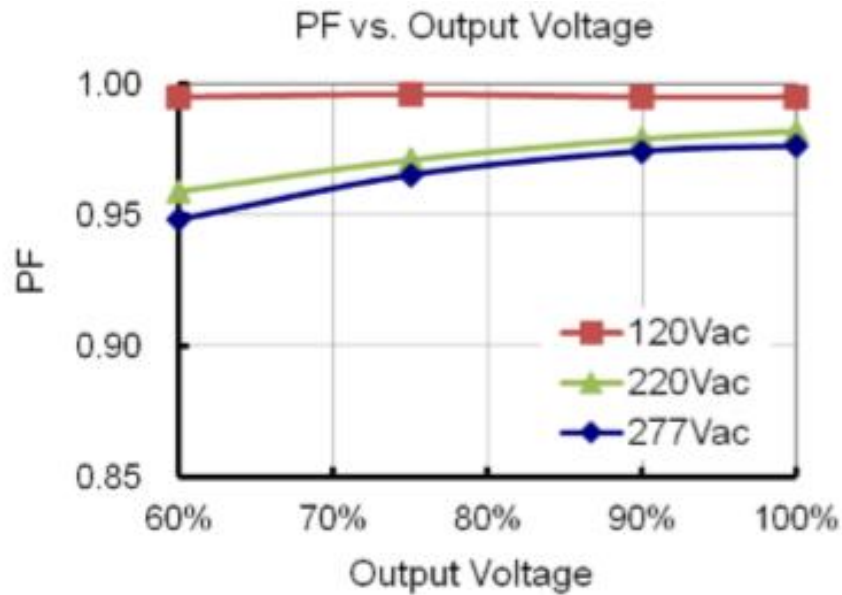
■ Dimming Curve



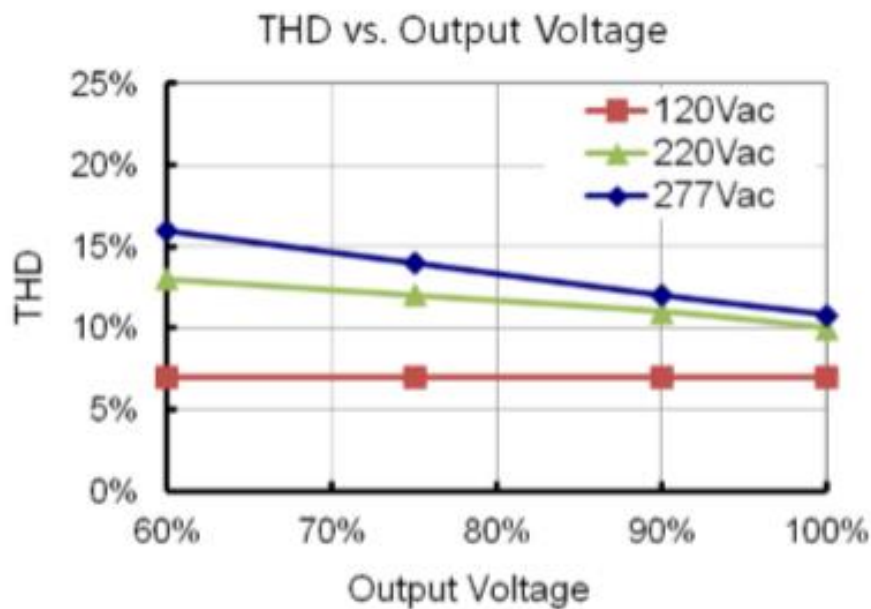
■ Derating Curve (Typical)



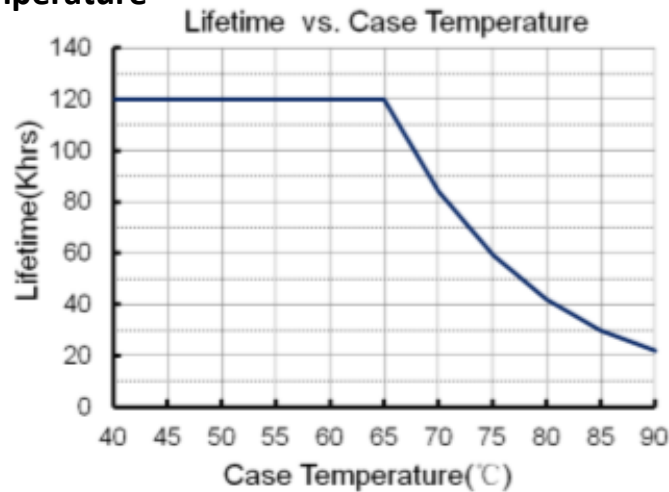
■ Power Factor vs Load



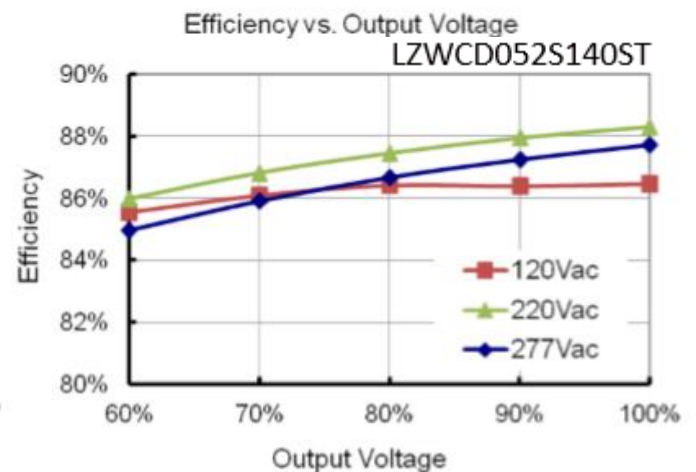
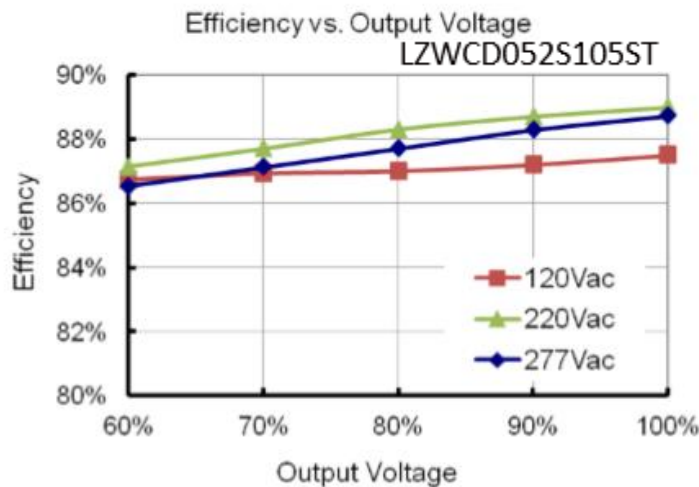
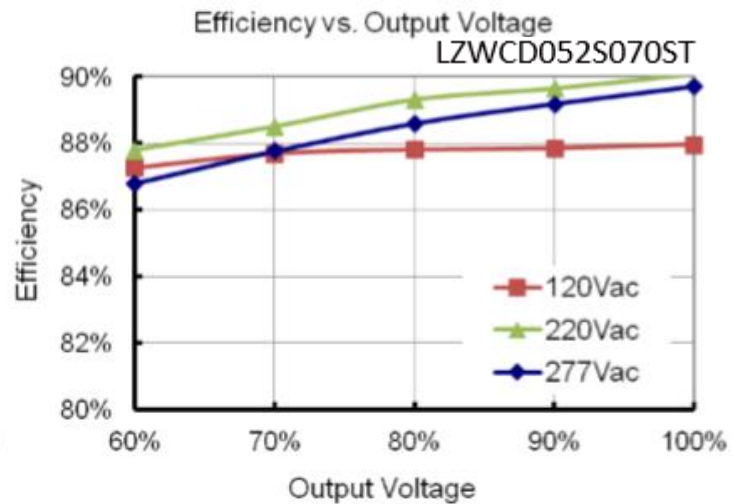
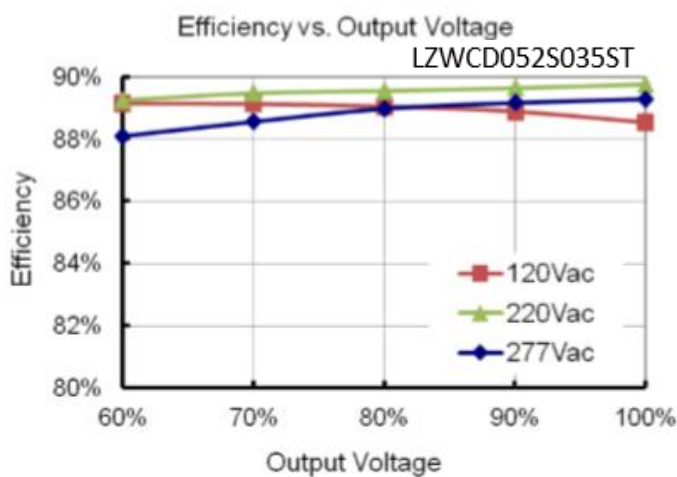
■ THD vs Load



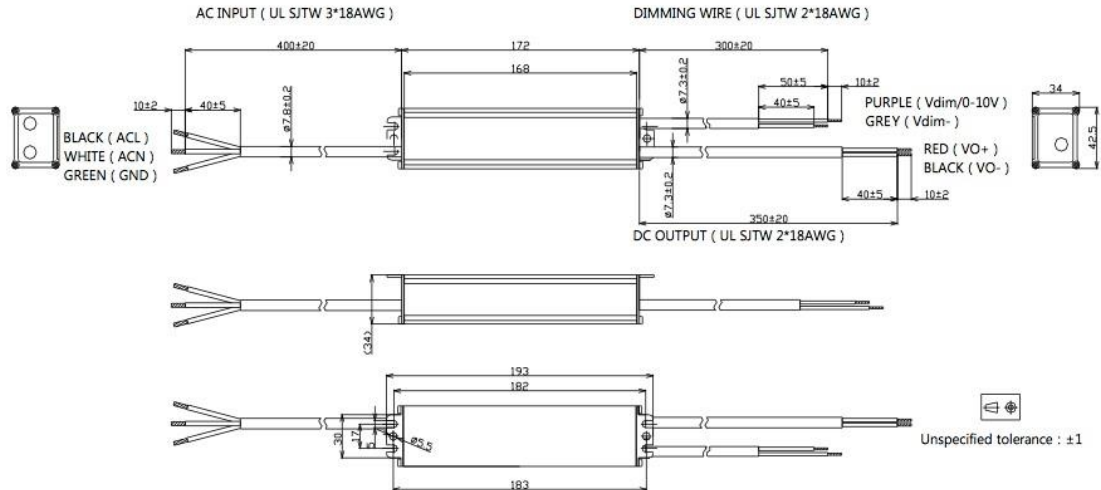
■ **Lifetime vs Case Temperature**



■ **Efficiency vs Load**

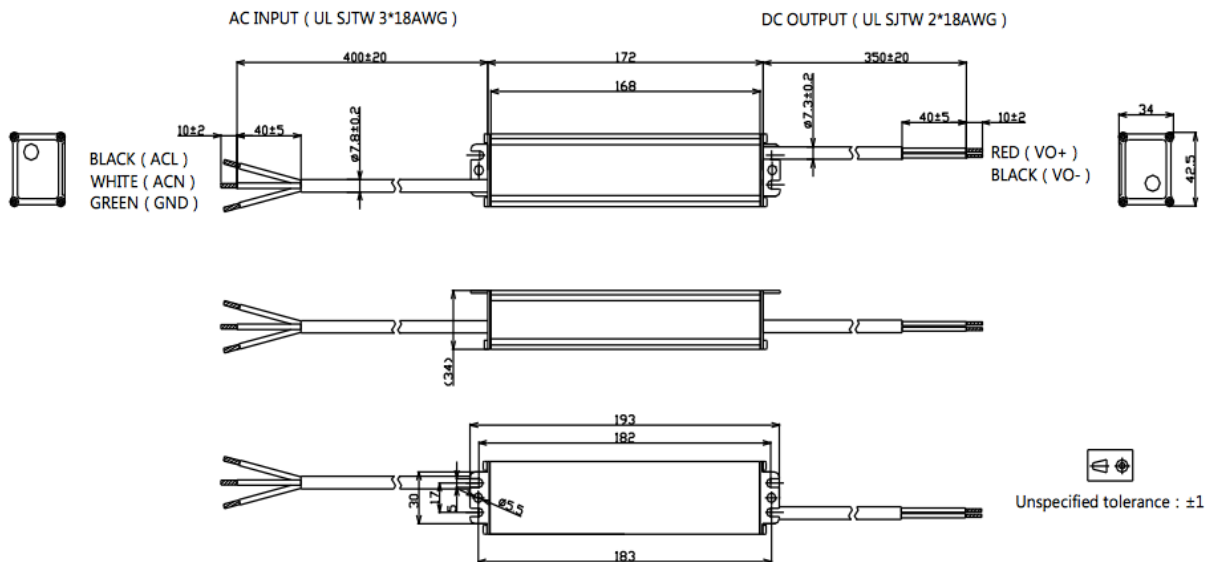


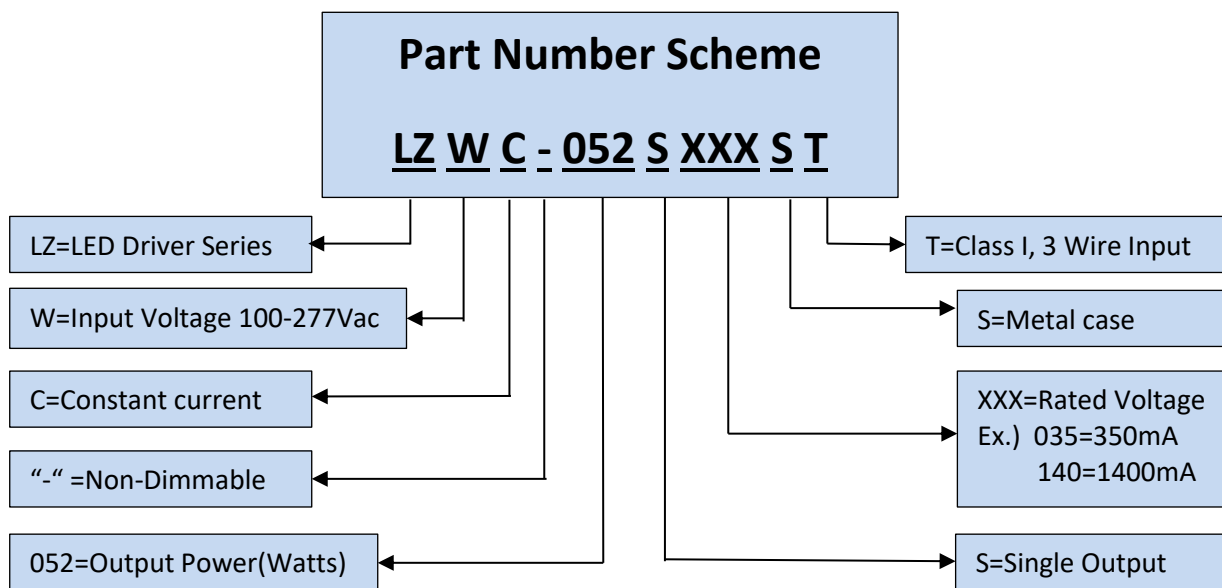
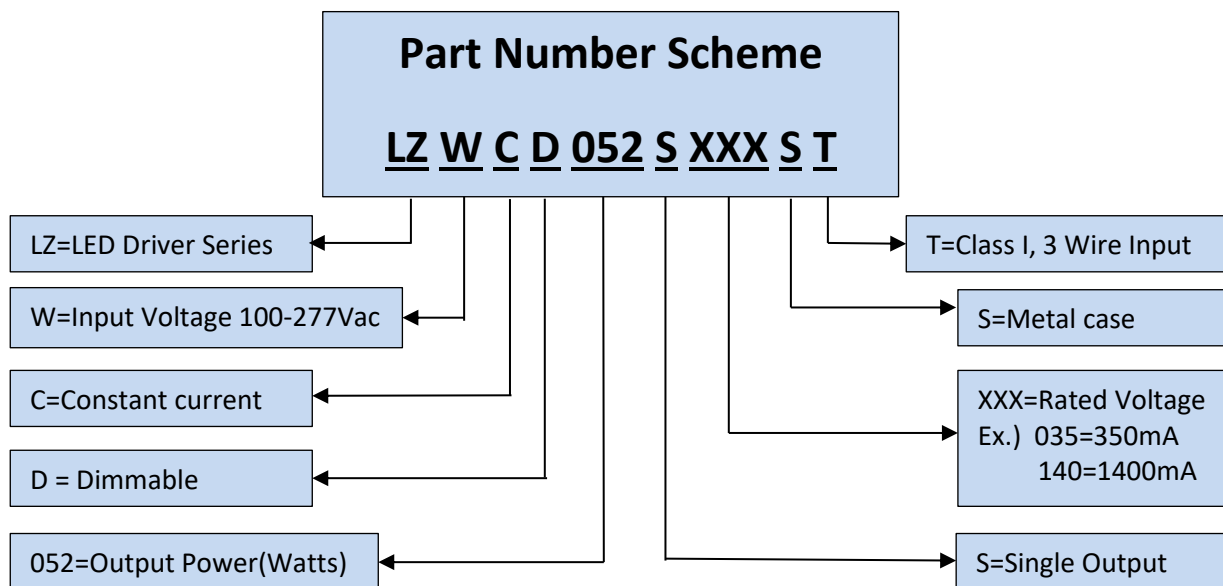
■ Mechanical Diagram(Dimming)



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.

■ Mechanical Diagram(Non-Dimming)





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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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