

■ Features

- Power Rating: 50W
- Input Voltage: 100-277Vac
- Constant current design
- Fixed output current(350mA-4170mA)
- Efficiency to 91%
- Dimmable with 0-10V dimming(optional)
- UL Class 2(some models)
- SCP, OTP, and OVP
- IP67
- 5-year warranty
- Surge Immunity: 4kV contact discharge (6kV optional)
- Sign Components Manual (SAM)



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

■ Application

- Indoor and outdoor applications

■ 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 110V/277V	Power Factor (277V)
LWC050-035S14XT	100~277Vac	50W	93-143V	350mA	350mA	89%/91%	0.9
LWC050-045S14XT	100~277Vac	50W	72-111V	450mA	450mA	89%/91%	0.9
LWC050-054S14XT	100~277Vac	50W	60-93V	540mA	540mA	89%/91%	0.9
LWC050-070S14XT	100~277Vac	50W	46-71V	700mA	700mA	89%/91%	0.9
LWC050-105S34XT*	100~277Vac	50W	31-48V	1050mA	1050mA	89%/91%	0.9
LWC050-140S24XT**	100~277Vac	50W	23-36V	1400mA	1400mA	88%/91%	0.9
LWC050-167S24XT**	100~277Vac	50W	20-30V	1670mA	1670mA	88%/90.5%	0.9
LWC050-210S24XT**	100~277Vac	50W	16-24V	2100mA	2100mA	88%/90.5%	0.9
LWC050-240S24XT**	100~277Vac	50W	14-21V	2400mA	2400mA	88%/90.5%	0.9
LWC050-280S24XT**	100~277Vac	50W	12-18V	2800mA	2800mA	87%/90.5%	0.9
LWC050-333S24XT**	100~277Vac	50W	10-15V	3330mA	3330mA	87%/89%	0.9
LWC050-417S24XT**	100~277Vac	50W	8-12V	4170mA	4170mA	86.5%/88.5%	0.9

(X=Dimming options: 0=Non-dimming, 2=2-wire dimming, 3=3-wire dimming)

■ Technical Data

Load Regulation	±5%
Line Regulation	±2%
Current range	±5%
Turn-on Delay time	2 sec. (Typ.) Measured at 110Vac input. / 1 sec. (Typ.) Measured at 220Vac input
Ripple & Noise (pk-pk)	3% Vo Measured by 20 MHz bandwidth oscilloscope and the output paralleled a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor
Input voltage range	100~277Vac

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■ Technical Data(cont.)

Frequency	50~63Hz
Inrush current	75A at 230Vac input, 25°C Cold Start
AC Current (Typ.)	0.56A measured at full load and 100Vac input / 0.25 measured at full load and 220Vac input
THD	< 20% measured at 100-277 Vac, from 75% to 100% Load
Leakage current	0.25 mA Measured at 277Vac 60Hz Input
Short circuit protection	Protection type: hiccup mode, recovers automatically after fault condition is removed
Over temperature protection	110°C Maximum temperature of components inside the case Auto recovers after cooling (Optional)
Over voltage protection	Latch mode, recycle AC to restart
Operating temperature	-40 ~ 70°C
Storage temperature	-40 ~ 85°C
Maximum case Temperature	90°C (See Mechanical Drawing for exact location)
Humidity operational	10% ~ 100%RH
Humidity storage	5% to 100%RH
MTBF	252,000 hours For 1400 mA output model, measured at 110V input, 80%Load and 25°C ambient temperature (MIL-HDBK-217F)
Life rating	87,000 hours For 1400 mA output model, measured at 220V input, 80%Load and 45°C ambient temperature
Length (L)	7.3" (185.9mm)
Width (W)	1.8" (46.2mm)
Height (H)	1.27" (32.3mm)
Weight	625g

Notes:

1. Unless specified, all the test results are measured in the 25°C ambient temperature.
2. *Class 2 Output (US & Canada).
3. **Class 2 Output (US)
4. Power factor minimum at 70% load

■ Safety Compliance

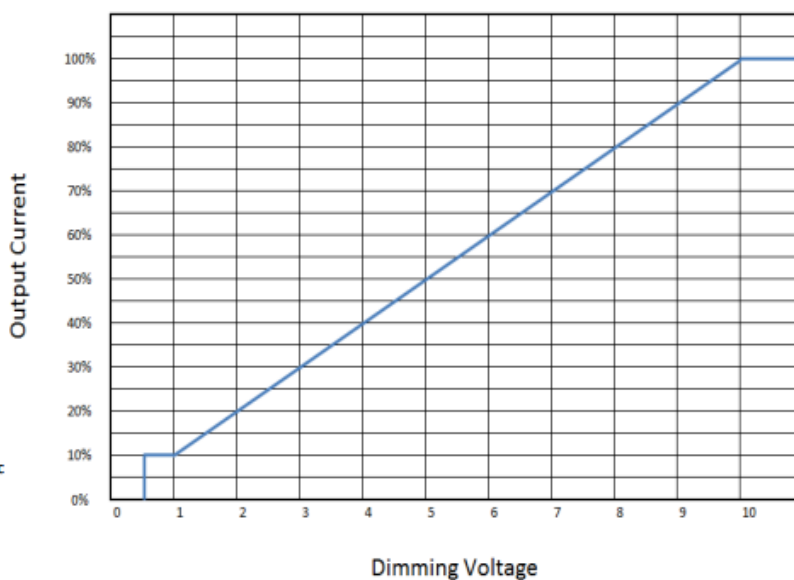
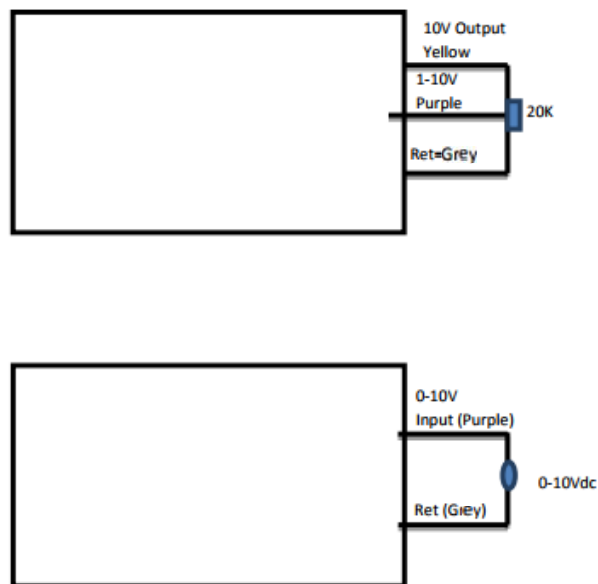
Safety Standard	UL8750, Compliance to UL1012 UL1310. CAN/CSA-C22.2 No. 223, CSA-C22.2 No. 107.1, CSA-C22.2 No. 250.0-13-12, EN61347.1, EN61347-2-13 and EN60529
EMI Conduction & Radiation	Meet EN55015 FCC Part 15 Class B
EMS Immunity	EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11, EN 61547
Surge	EN61000-4-2 4kV contact discharge (6kV optional available)

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■ Dimming

Parameter	Min.	Typ.	Max.
10V output voltage	9.8V	10V	10.2V
10V output source current	0mA	-	10mA
Voltage on the 0-10v input pin	500mV	-	12V
Source current on 0-10V input pin	0mA	-	1mA

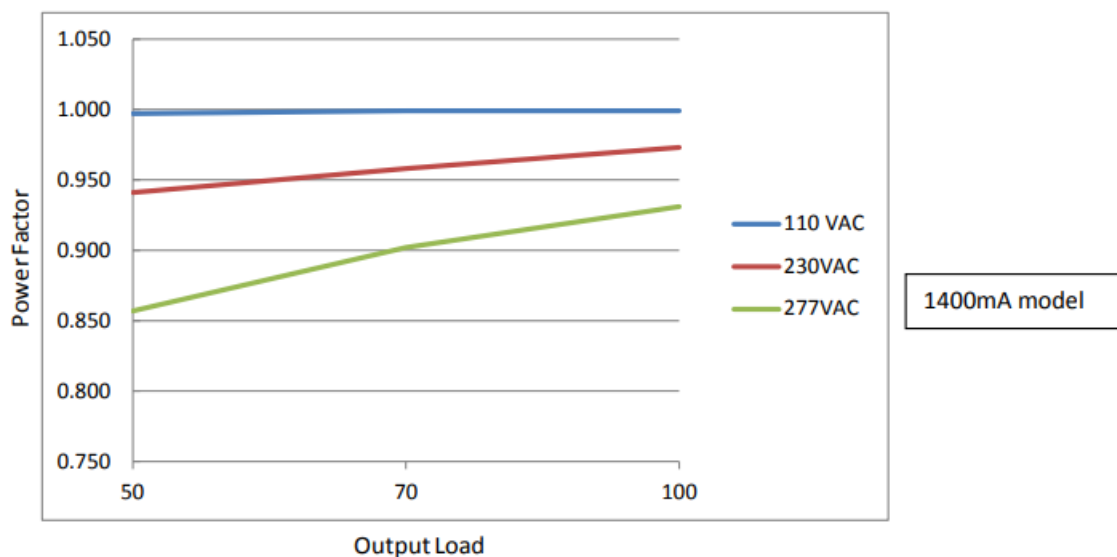
The Dimmer control may be operated from a potentiometer, an input signal of 0 – 10 Vdc or a PWM signal.



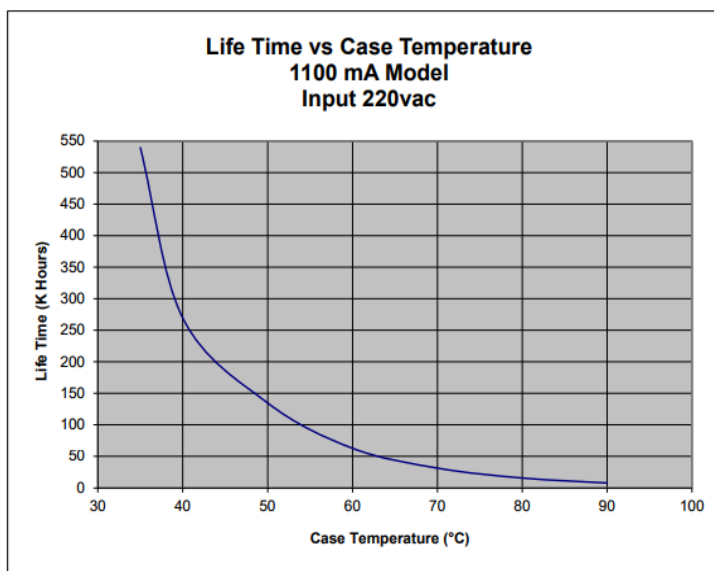
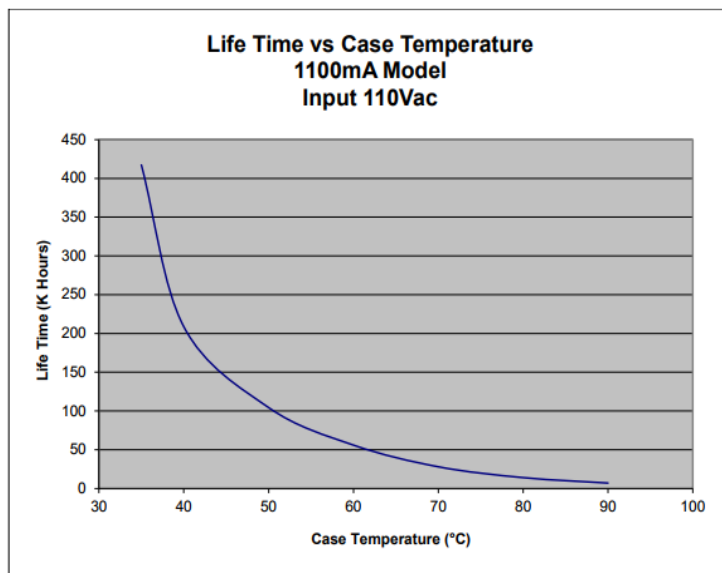
Notes:

1. If the dimming function is not used, please open the yellow, purple and grey.
2. I_o is actually output current and I_r is rated current without dimming.
3. Do not connect the dimming return to the output; otherwise the driver will not work normally.

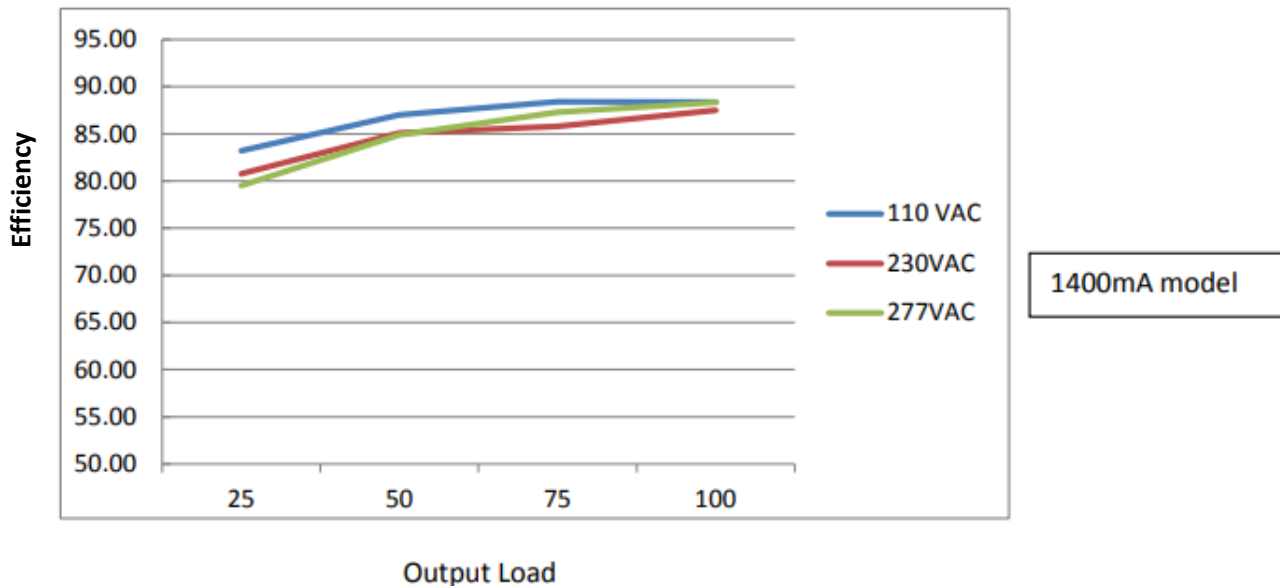
■ Power Factor vs Load



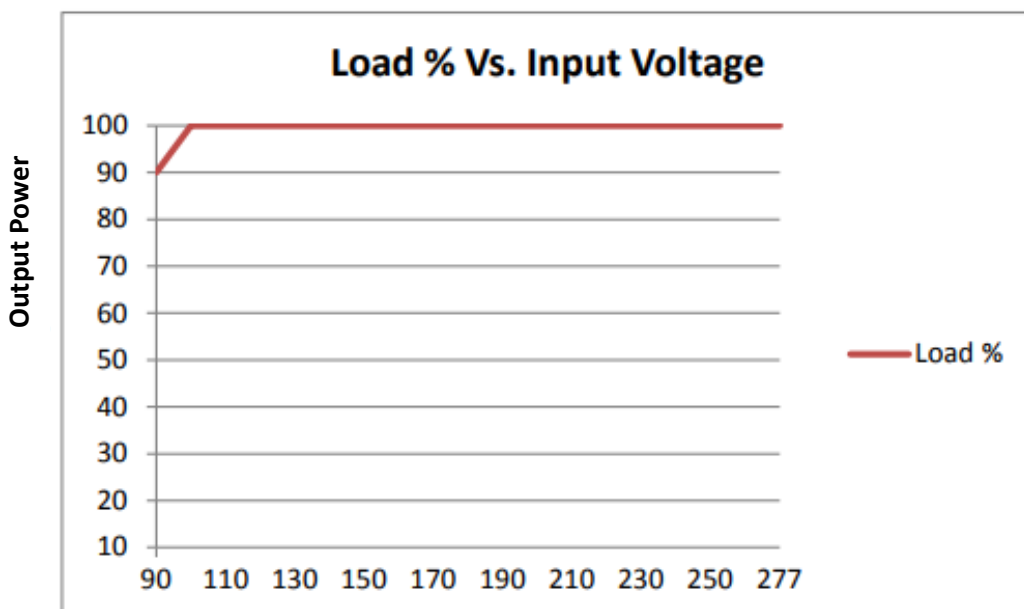
■ Lifetime vs Case Temperature



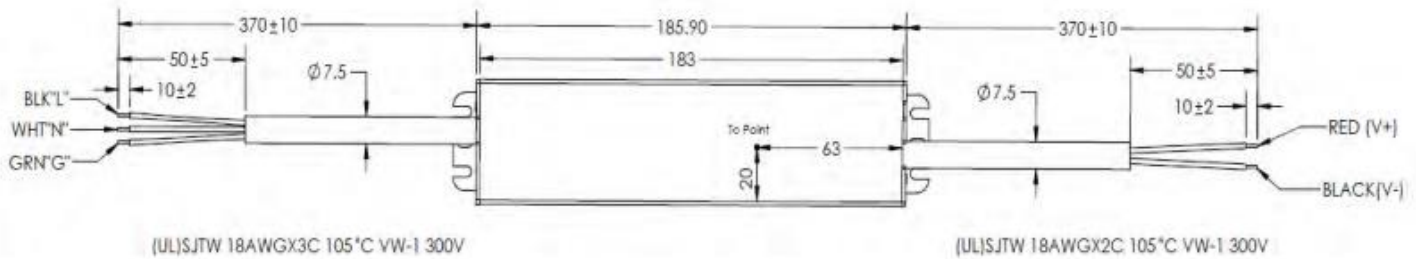
■ Efficiency vs Load



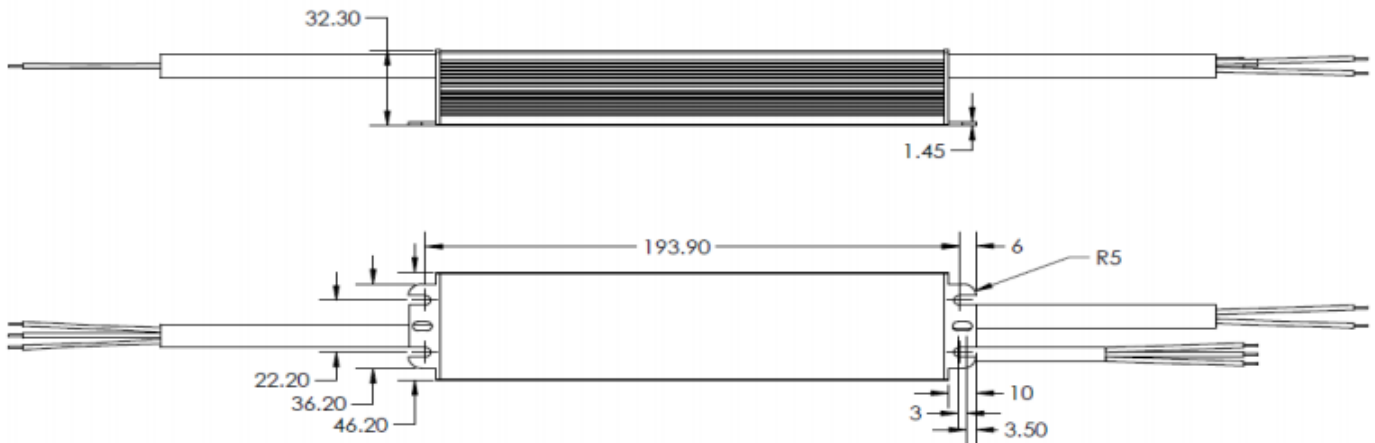
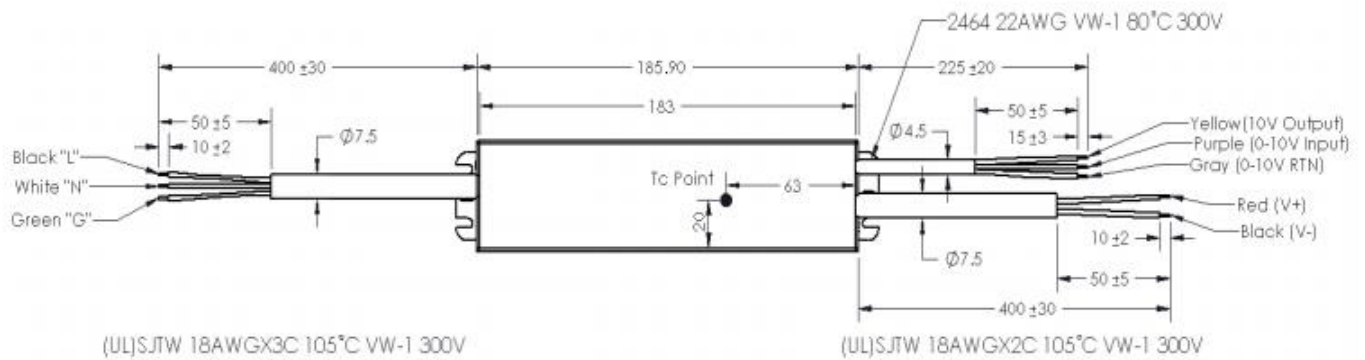
■ Derating Curve

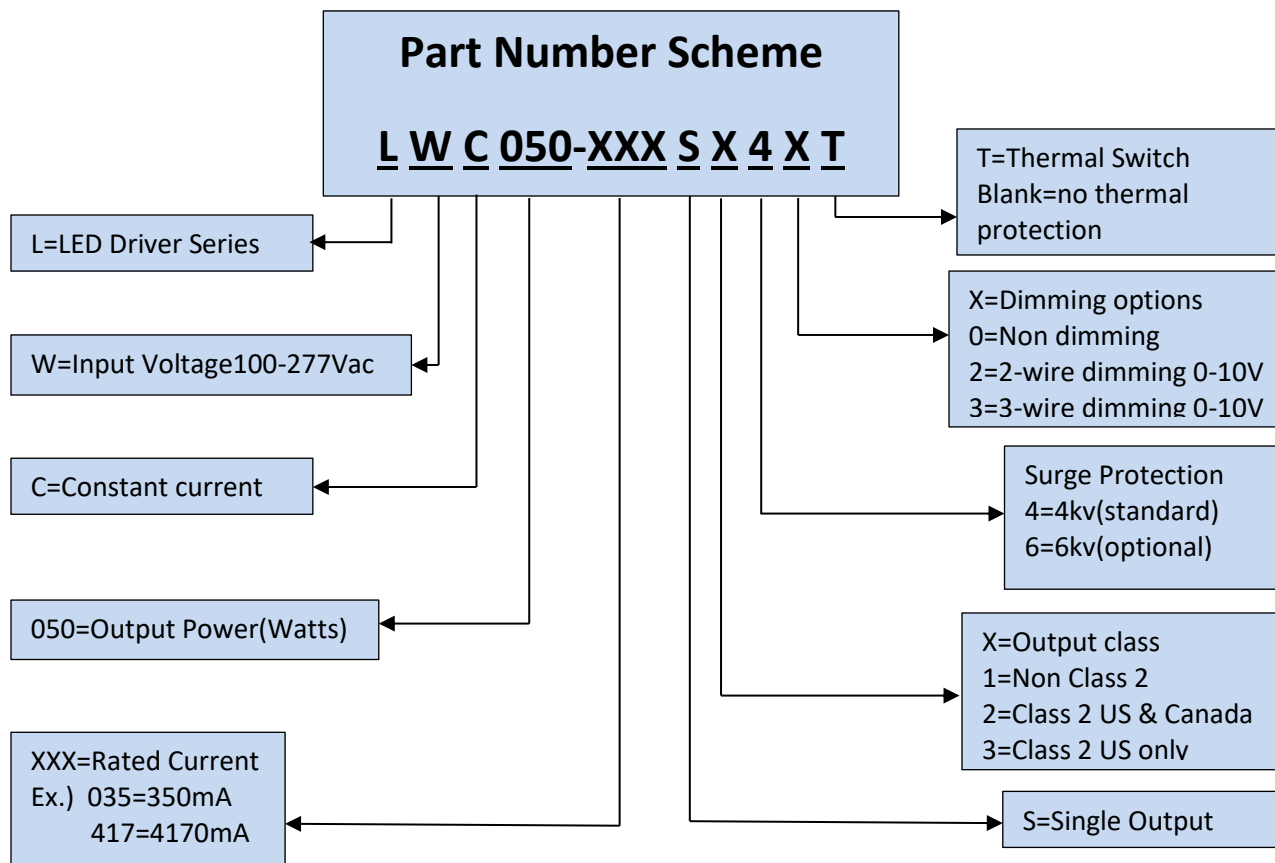


■ **Mechanical Diagram Non-Dimming**



■ **Mechanical Diagram Dimming**





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