

■ Features

- Power Rating: 12-20W
- Input Voltage: 90-305Vac
- Constant current design
- Output current (40mA-700mA)
- Output current Settable through DIP switch (-P version)
- Efficiency up to 84%
- Compatible with Triac/ELV dimming
- UL Class 2 Output
- Lightning, OVP, SCP, OTP & Open Circuit Protection
- IP64
- 5-year warranty
- Surge Protection: 1kV



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

■ Application

- Indoor LED lights
- LED lights with flexible current settings
- Downlights, spot lights, LED panels

■ 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
L4WCT012S040PS	90~305Vac	12W	22-28V	40mA	400mA	82%	UL/cUL
L4WCT015S050PS	90~305Vac	14W	22-28V	50mA	500mA	83%	UL/cUL
L4WCT018S060PS	90~305Vac	17W	22-28V	60mA	600mA	84%	UL/cUL
L4WCT020S070PS	90~305Vac	20W	14-28V	70mA	700mA	84%	UL/cUL
L4WCT020S070PS-P	90~305Vac	20W	14-28V	400mA	700mA	84%	UL/cUL

*(-P = DIP switch output current setting)

■ Technical Data

Input voltage range	90-305Vac
Frequency	47-63Hz
Power factor	> 0.95 @115Vac & 80~100% load, > 0.90 @277Vac & 80~100% load
Output voltage	22-28V, 14-28V
Output power	12W-20W
Max. Current ripple	± 30%
Max input current	0.17A-0.27A

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■ Technical Data(cont.)

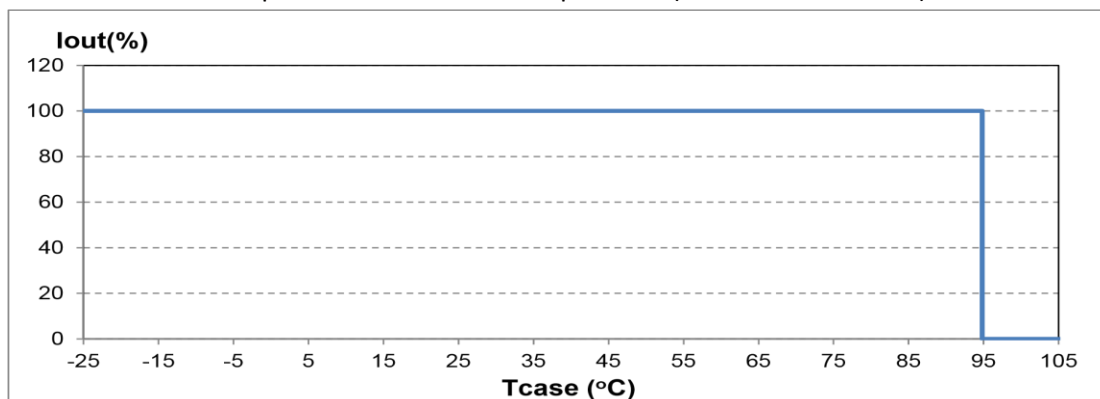
Max input Power	15.3W-24W
Efficiency	82%-84%
Max. open circuit voltage	35V
Dimming	Triac/ELV
THD	< 20% @120Vac & 80~100% load condition
Protection	OVP, SCP, OTP, and Open Circuit Protection
Environmental Protection	UL Dry &Damp
Working Temperature	-20~+60°C
Max Case Temperature	90°C
Surge Protection	1kV
ANSI Surge Type	1.2/50μs Combination Wave (w/t 2Ω)
Isolation	3750Vac/10maMax/60 seconds
Dimension	95x40x25 mm (3.74x1.57x0.98 inch)
Mounting Length	85 mm (3.35 inch)
Overall Length	95 mm (3.74 inch)
Weight	0.15 kg (0.33 lb)
Packing	0.15 kg; 72units/carton; 36 cartons/pallet
Lifetime	100,000 hours @full load, 65°C Tcase

■ Safety Compliance

Safeties	U1310 Class 2
Electromagnetic Compliance	Per Title 47 CFR Part 15 Class B

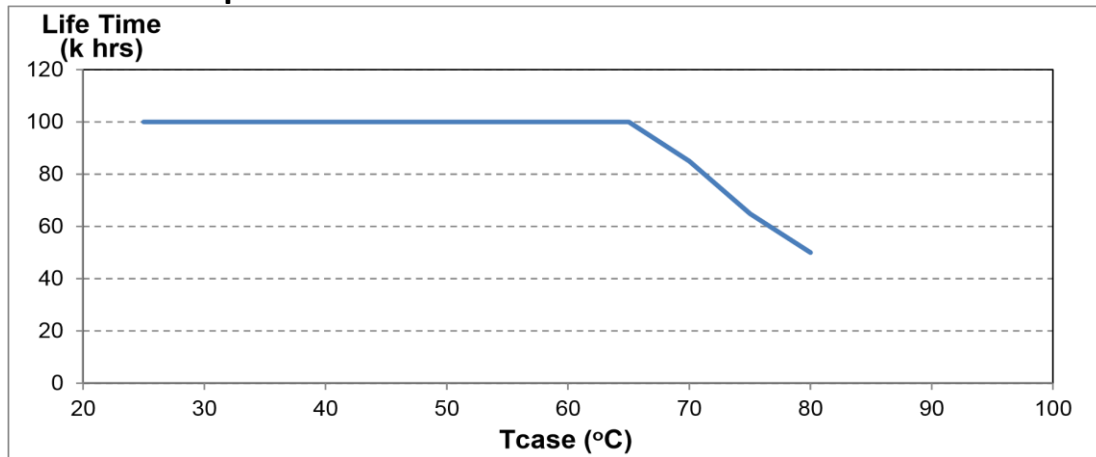
■ Electrical Specifications*(Tested with L4WCT020S070PS)

Output Current vs. Case Temperature (with ±5°C Tolerance)

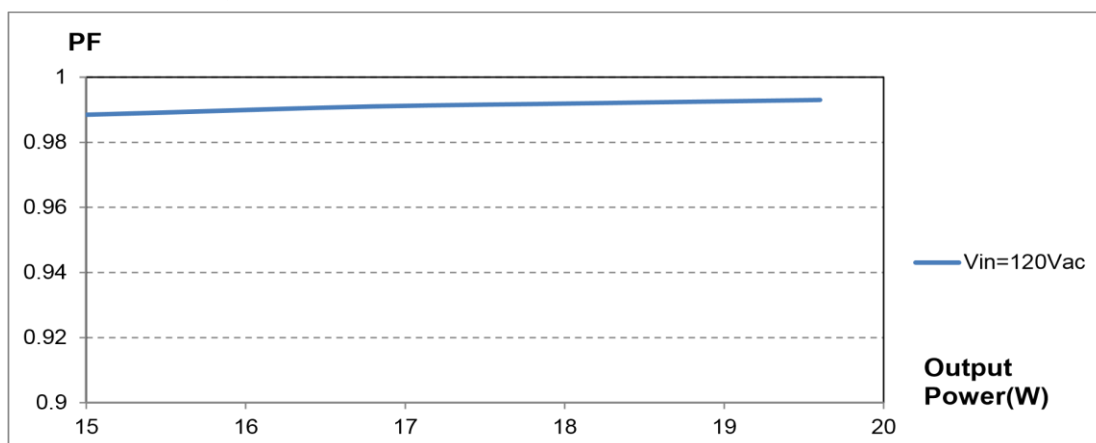


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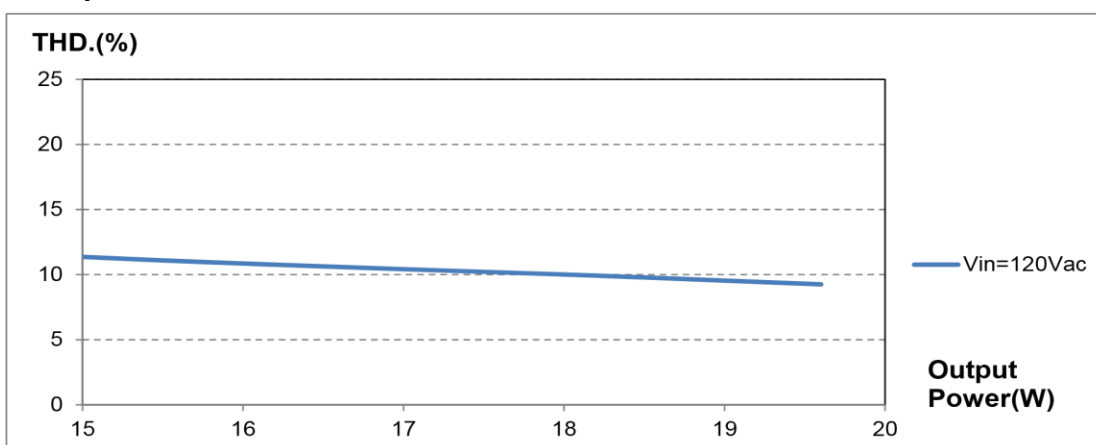
■ **Lifetime vs Case Temperature**



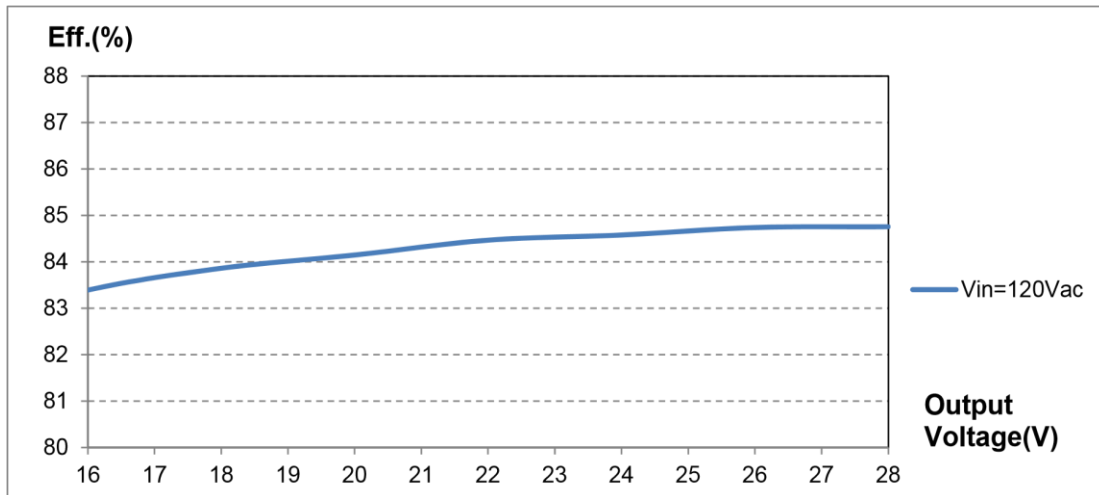
■ **Power Factor vs. Output Power**



■ **THD vs. Output Power**

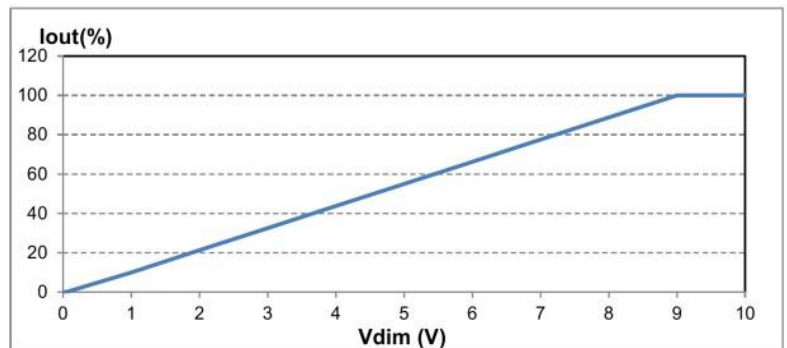
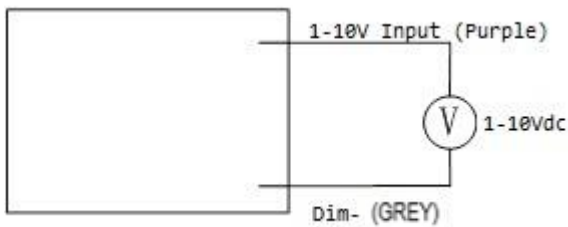


■ Efficiency vs. Output Voltage

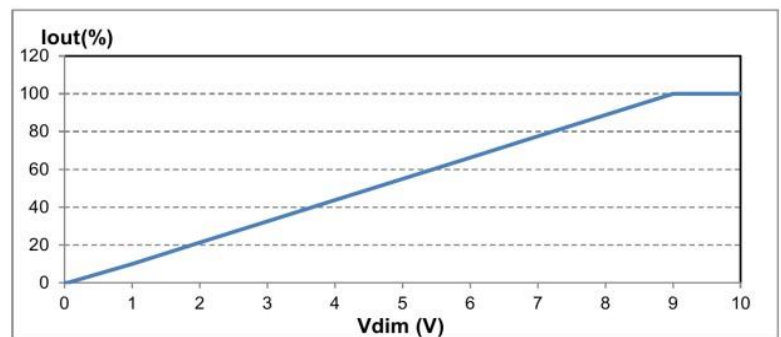
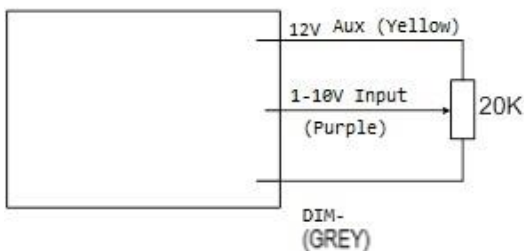


■ Dimming

Mode 1 : 1-10Vdc Input on Dimming Control



Mode 2 : Potentiometer on Dimming Control

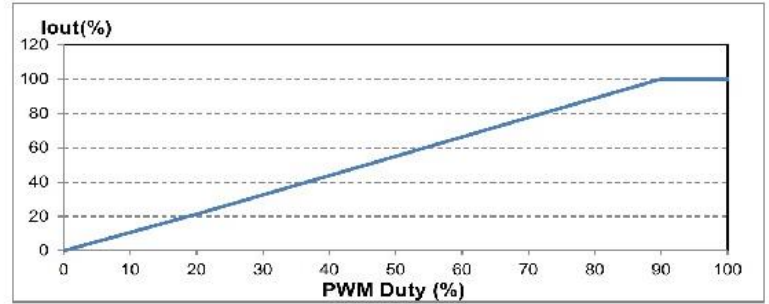


■ **Dimming(cont.)**

Mode 3 : PWM Signal on Dimming Wires

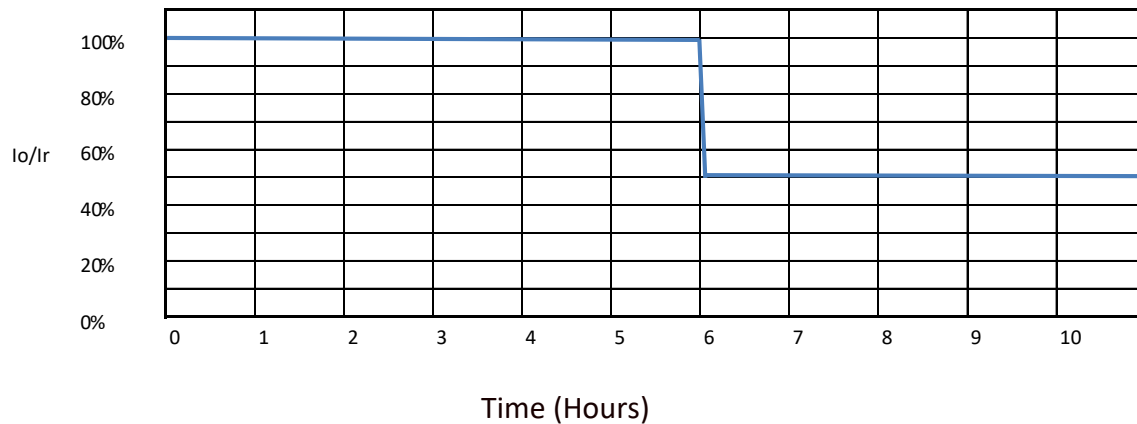


Io/Ir vs PWM Duty



Parameter	Values	Conditions
Input Voltage	0~10 V	Purple wire.
Input Current	10 mA	
PWM Frequency	0.5 ~ 3 kHz	
PWM Pulse Width	10%~100%	

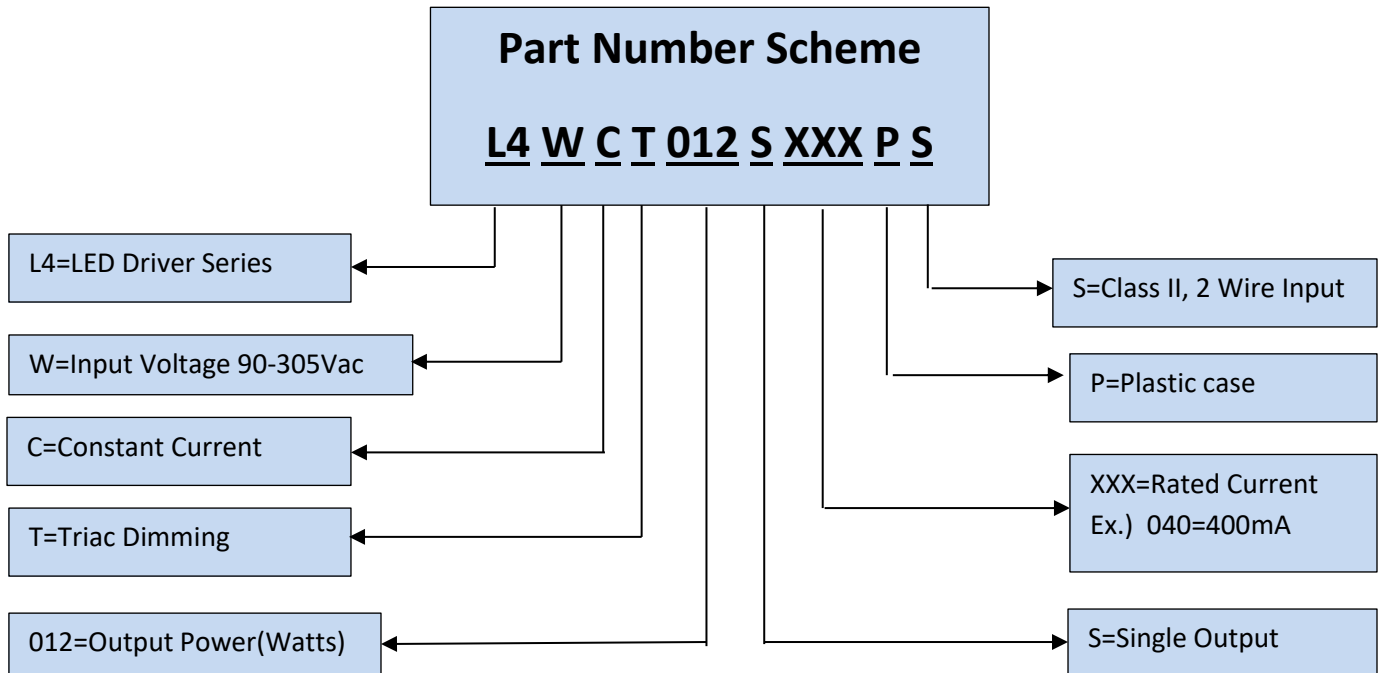
Mode 4 : Timer Dimming (Does not require dimming wires)



Standard power/time combination above, can be factory set to customer specification. Recycle AC to restart timer.

NOTE:

1. If the dimming function is not used, cap the dimming wires and don't use them.
2. I_o is actual output current and I_r is rated current without dimming control.
3. For the driver to operate properly, the load voltage must be maintained above the minimum voltage threshold, approximately 50% of the max. output voltage for any given mode.
4. The dimming signal can be less than 1V, when it is 0-1V, the output current can maintain about 10% I_r , however, the connected LEDs may flicker. Maintain dimming voltage greater than 1V in the application is strongly recommended.
5. Pulse width less than 10% will cause the driver to work improperly.



Part Number Scheme

L4 W C T 015 S XXX P S

L4=LED Driver Series

W=Input Voltage 90-305Vac

C=Constant Current

T=Triac Dimming

015=Output Power(Watts)

S=Class II, 2 Wire Input

P=Plastic case

XXX=Rated Current
Ex.) 050=500mA

S=Single Output

Part Number Scheme

L4 W C T 018 S XXX P S

L4=LED Driver Series

W=Input Voltage 90-305Vac

C=Constant Current

T=Triac Dimming

018=Output Power(Watts)

S=Class II, 2 Wire Input

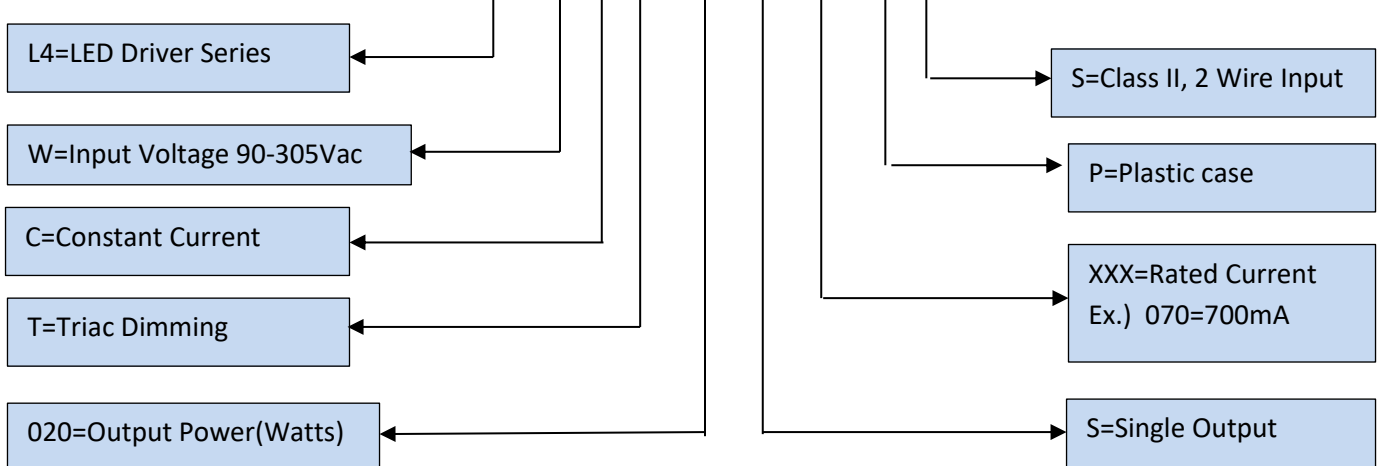
P=Plastic case

XXX=Rated Current
Ex.) 060=600mA

S=Single Output

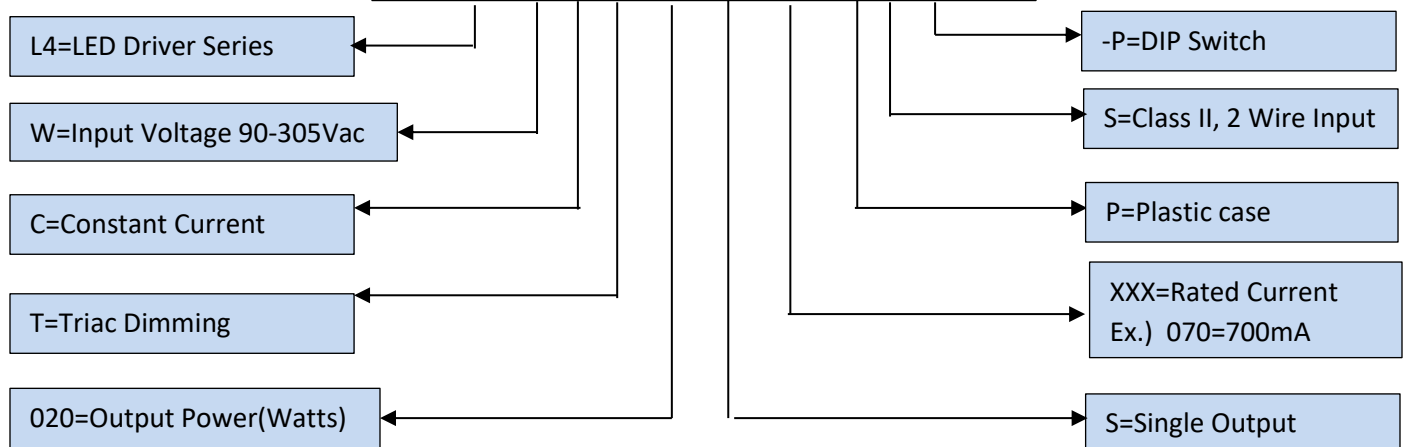
Part Number Scheme

L 4 W C T 020 S XXX P S



Part Number Scheme

L 4 W C T 020 S XXX P S -P



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