

■ Features

- Power rating: 34-42W
- Input Voltage: 90-305Vac
- Constant Current Design
 - Output current (60mA to 900mA)
- Selectable output current through DIP Switch (-P version)
- Efficiency up to 89%
- Compatible with 0-10V dimming
- UL Class 2 Output
- Lightning, OVP, SCP, OTP & Open Circuit Protection
- 5-year warranty at 50°C Tcase
- IP67
- 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
L4WCD034S060PS	90~305Vac	34W	27-55V	60mA	600mA	88%	UL/cUL
L4WC-034S060PS	90~305Vac	34W	27-55V	60mA	600mA	88%	UL/cUL
L4WCD040S070PS	90~305Vac	40W	27-55V	70mA	700mA	89%	UL/cUL
L4WC-040S070PS	90~305Vac	40W	27-55V	70mA	700mA	89%	UL/cUL
L4WCD040S080PS	90~305Vac	40W	27-50V	80mA	800mA	89%	UL/cUL
L4WC-040S080PS	90~305Vac	40W	27-50V	80mA	800mA	89%	UL/cUL
L4WCD042S090PS	90~305Vac	42W	27-46V	90mA	900mA	89%	UL/cUL
L4WC-042S090PS	90~305Vac	42W	27-46V	90mA	900mA	89%	UL/cUL
L4WCD042S090PS-P	90~305Vac	42W	27-55V	600mA	900mA	89%	UL/cUL

*(-P = DIP switch output current setting) (D=Dimming/ " - " =no dimming) (Output Voltage settable at factory)

■ Technical Data

Input voltage range	90-305Vac
Frequency	47-63Hz

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■ Technical Data(cont.)

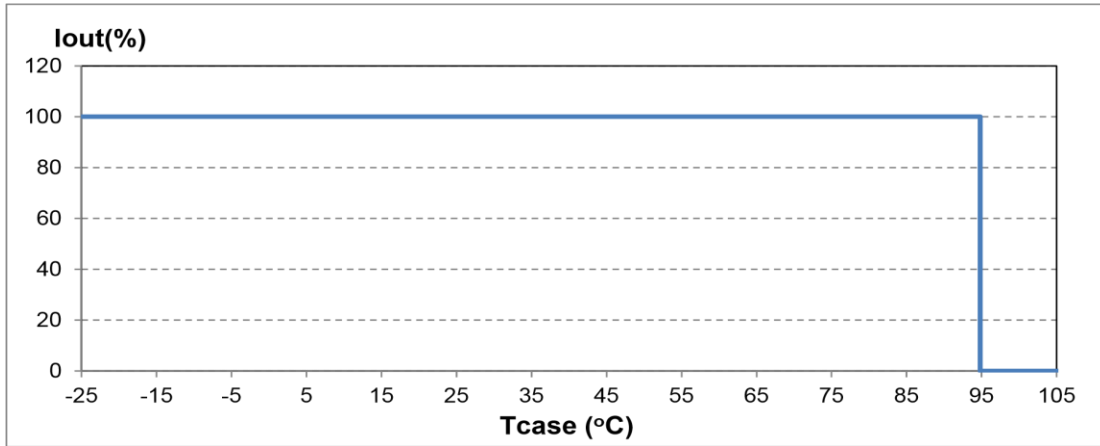
Power factor	> 0.95 @115Vac & 80~100% load, > 0.90 @277Vac & 80~100% load
Output voltage	27-55V, 27-55V, 27-50V, 27-46V
Output power	34W-42W
Max. Current ripple	± 30%
Max input current	0.5A, 0.6A
Max input Power	40W, 45W, 50W
Efficiency	88%-89%
Max. open circuit voltage	70V
Dimming	D version: 0-10V Dimming
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	95x70x32 mm (3.74x2.76x1.26 inch)
Mounting Length	85 mm (3.35 inch)
Overall Length	95 mm (3.74 inch)
Weight	0.27 kg (0.60 lb)
Packing	0.27 kg; 50 units/carton; 1200/Pallet
Lifetime	100,000 hours @full load, 65°C Tcase

■ Safety Compliance

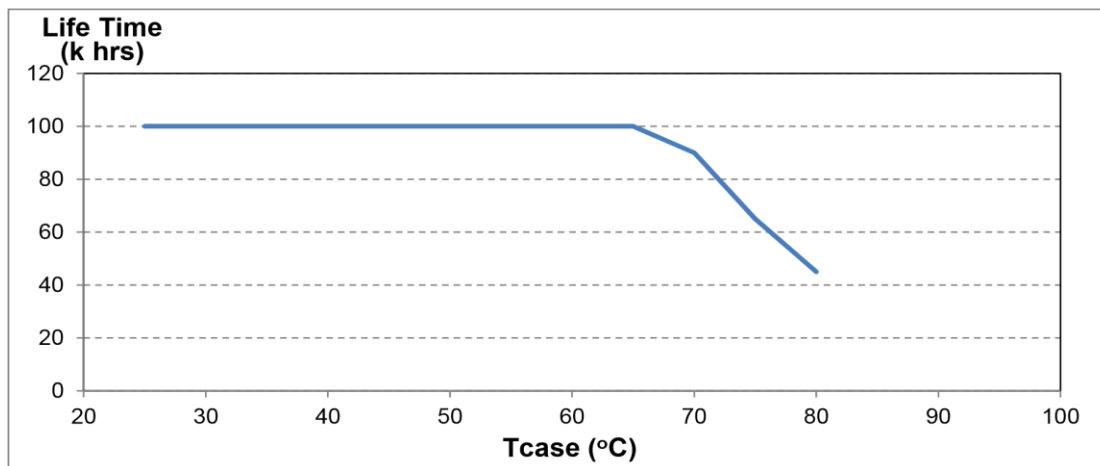
Safeties	UL8750
Electromagnetic Compliance	Per Title 47 CFR Part 15 Class B

■ **Electrical Specifications***(Tested with L4WCD034S060PS @25°C)

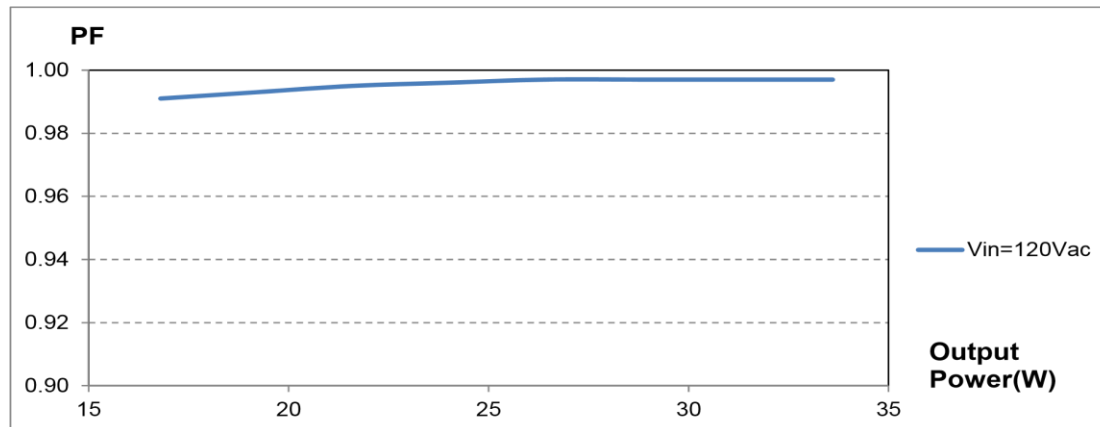
Output Current vs. Case Temperature (with $\pm 5^{\circ}\text{C}$ Tolerance)



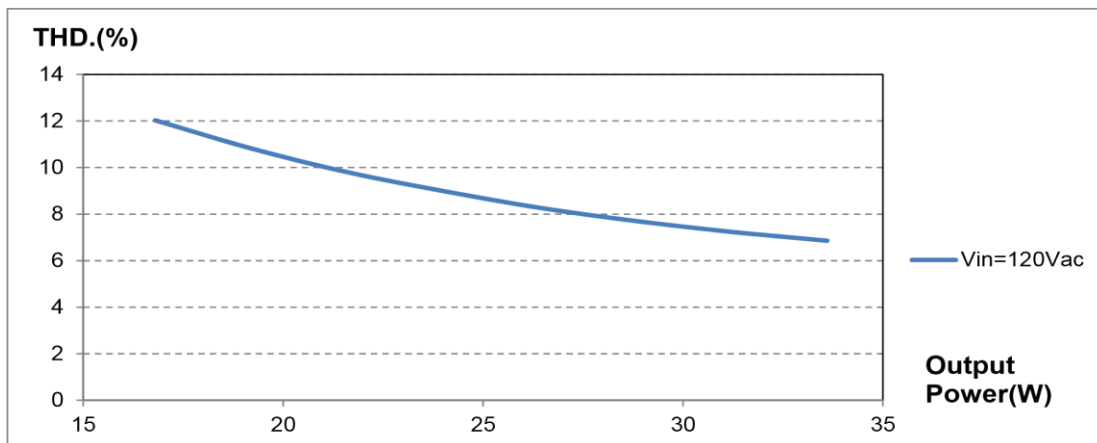
■ **Lifetime vs Case Temperature**



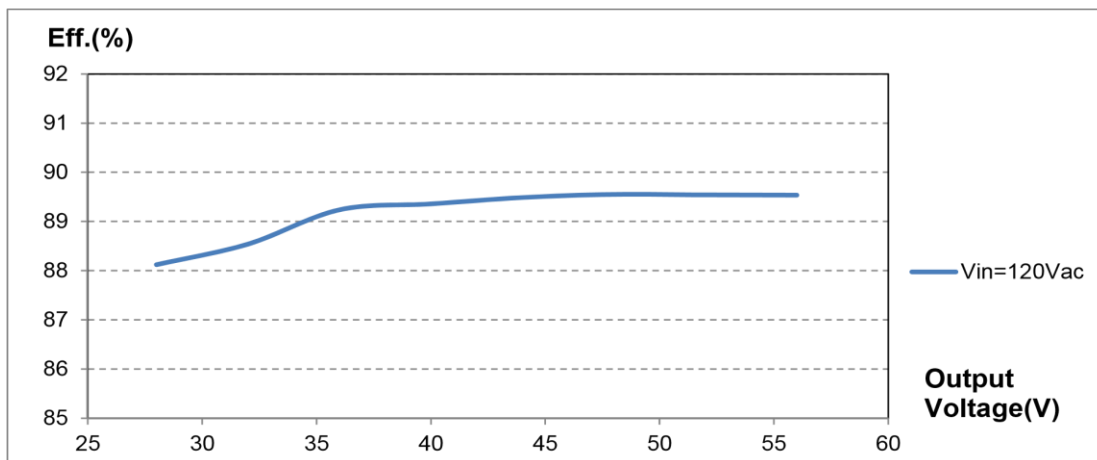
■ **Power Factor vs. Output Power**



■ **THD vs. Output Power**

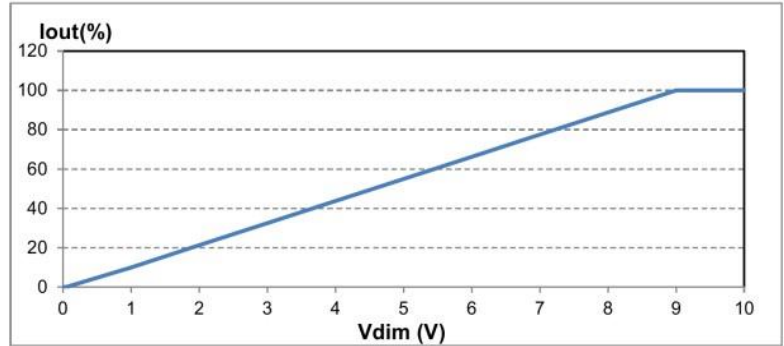
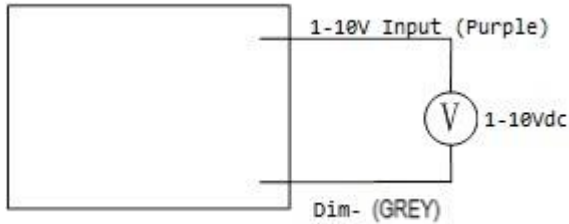


■ **Efficiency vs. Output Voltage**

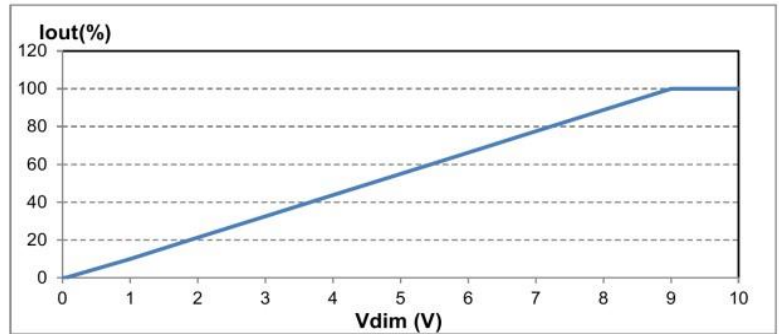
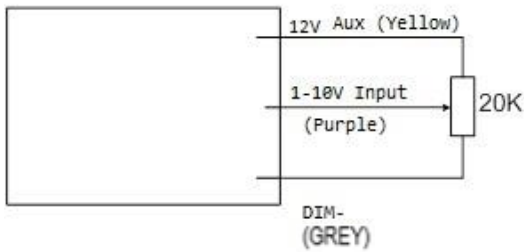


■ **Dimming**

Mode 1 : 1-10Vdc Input on Dimming Control



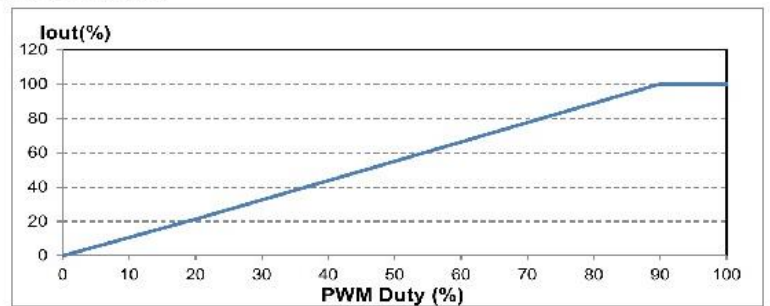
Mode 2 : Potentiometer on Dimming Control



Mode 3 : PWM Signal on Dimming Wires



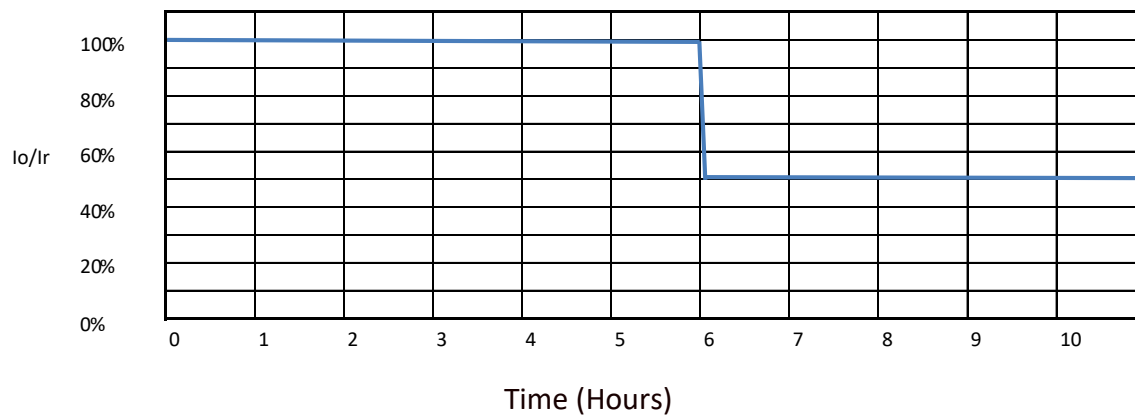
Io/Ir vs PWM Duty



■ **Dimming(cont.)**

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.

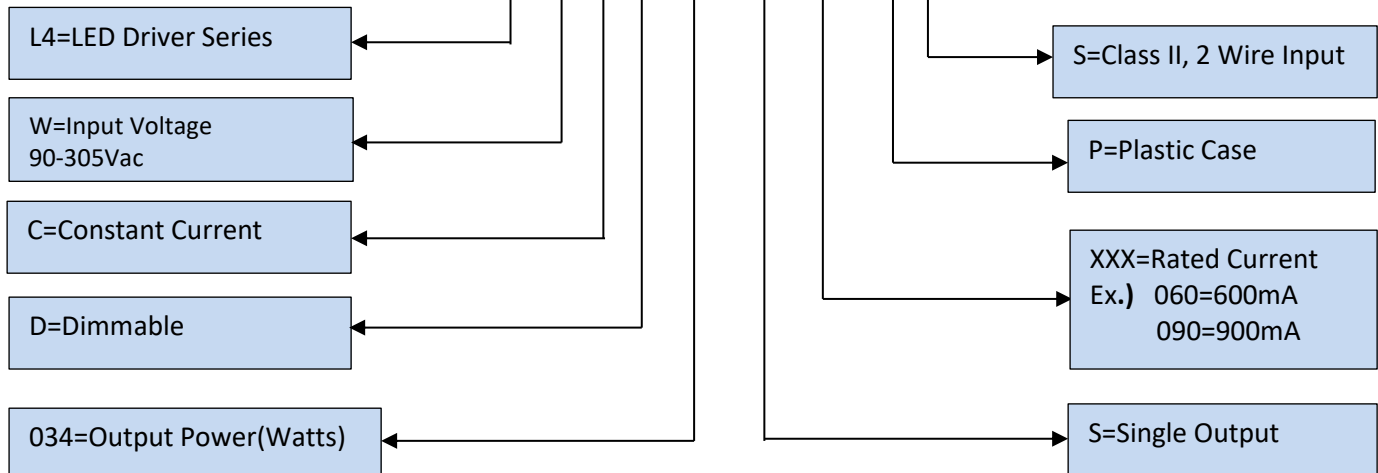
Recycle AC to restart timer.

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.

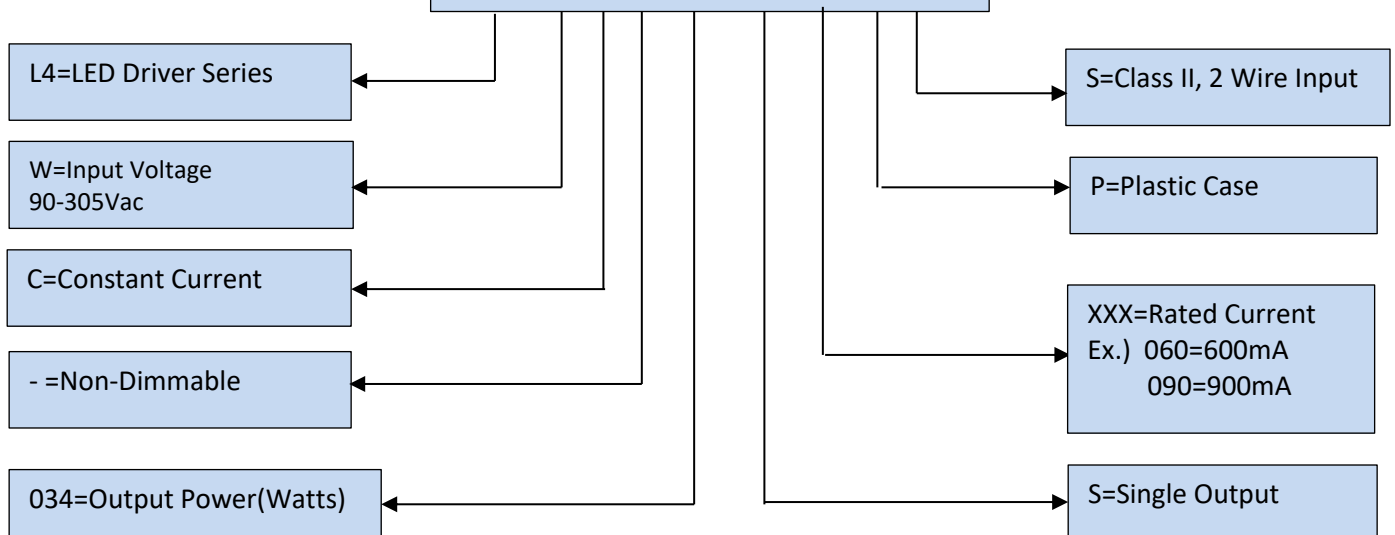
Part Number Scheme

L 4 W C D 034 S XXX P S



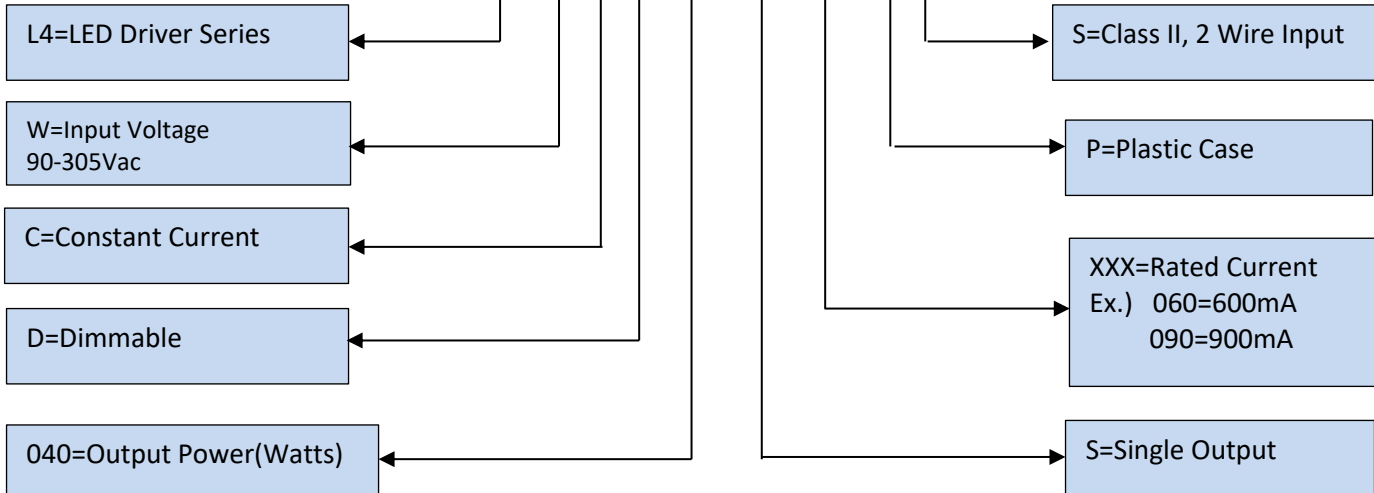
Part Number Scheme

L 4 W C - 034 S XXX P S



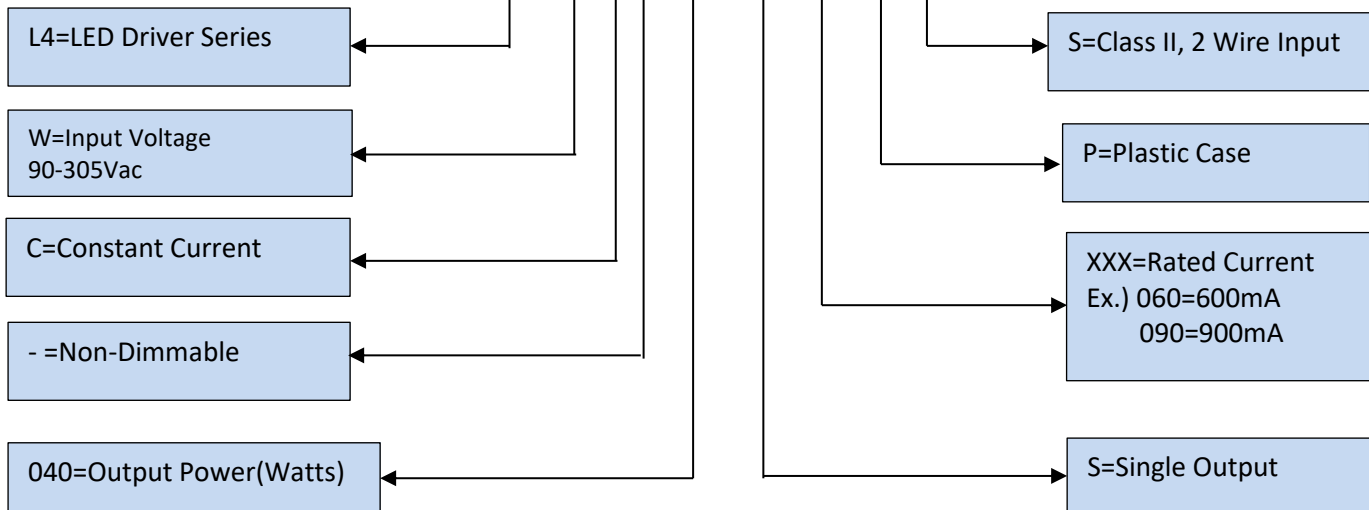
Part Number Scheme

L 4 W C D 040 S XXX P S



Part Number Scheme

L 4 W C - 040 S XXX P S



Part Number Scheme

L W C D 042 S XXX P S

L4=LED Driver Series

W=Input Voltage
90-305VAC

C=Constant Current

D=Dimmable

042=Output Power(Watts)

S=Class II, 2 Wire Input

P=Plastic Case

XXX=Rated Current
Ex.) 060=600mA
090=900mA

S=Single Output

Part Number Scheme

L W C - 042 S XXX P S

L4=LED Driver Series

W=Input Voltage
90-305Vac

C=Constant Current

- =Non-Dimmable

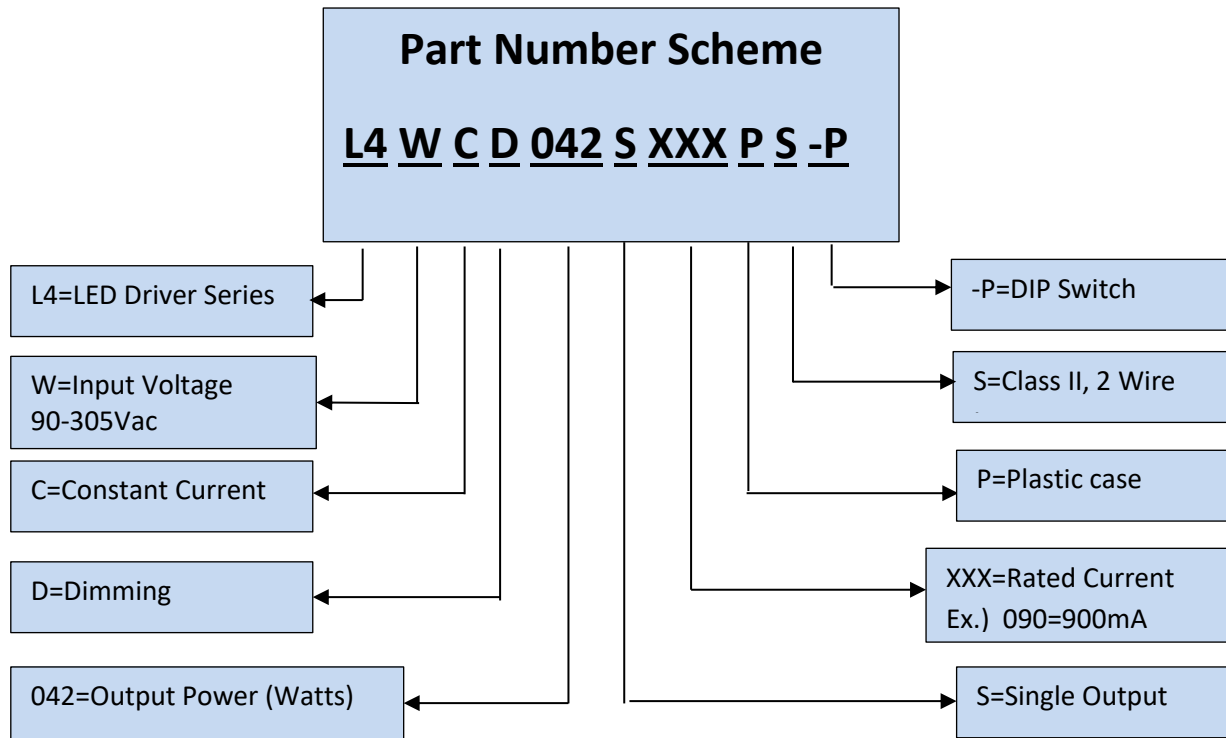
042=Output Power(Watts)

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