

■ Features

- Power Rating: 42-50W
- Input Voltage: 90-305Vac
- Constant current design
- Output current(105mA-2100mA)
- Selectable output current through DIP Switch (-P version)
- Efficiency up to 88%
- Compatible with 0-10V dimming
- UL Class 2 Output
- OVP, SCP, OTP & Open Circuit Protection
- IP67
- 5-year warranty
- Surge protection 1kV

■ 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
L4WCD042S105PS	90~305Vac	42W	18-40V	105mA	1050mA	88%	UL/cUL
L4WC-042S105PS	90~305Vac	42W	18-40V	105mA	1050mA	88%	UL/cUL
L4WCD050S140PS	90~305Vac	50W	18-36V	140mA	1400mA	88%	UL/cUL
L4WC-050S140PS	90~305Vac	50W	18-36V	140mA	1400mA	88%	UL/cUL
L4WCD050S175PS	90~305Vac	50W	16-28V	175mA	1750mA	87%	UL/cUL
L4WC-050S175PS	90~305Vac	50W	16-28V	175mA	1750mA	87%	UL/cUL
L4WCD050S210PS	90~305Vac	50W	16-24V	210mA	2100mA	87%	UL/cUL
L4WC-050S210PS	90~305Vac	50W	16-24V	210mA	2100mA	87%	UL/cUL
L4WCD0500S210PS-P	90~305Vac	50W	16-40V	1050mA	2100mA	87%	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
Power factor	> 0.95 @115Vac & 80~100% load, > 0.90 @277Vac & 80~100% load

RoHS
Compliant



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

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■ Technical Data(cont.)

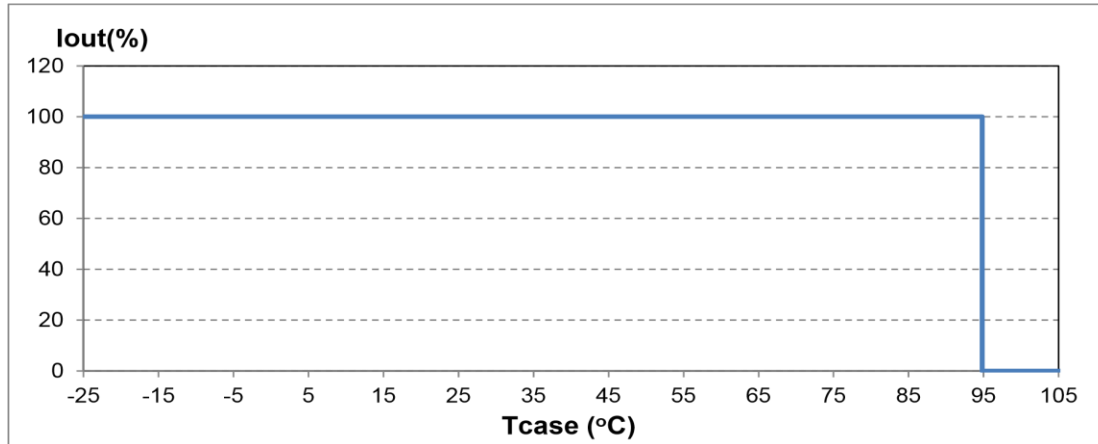
Output voltage	18-40V, 18-36V, 16-28V, 16-24V
Output power	42W-50W
Max. Current ripple	± 30%
Max input current	0.6A, 0.75A
Max input Power	50W, 58W, 50W
Efficiency	88%-89%
Max. open circuit voltage	70V
Dimming	D version: 0-10V Dimming
THD	< 20% @120Vac & 80~100% load condition
Protection	OVP, SCP, OTP, 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	0.34 kg (0.75 lb)
Packing	0.34 kg; 50 units/carton; 24 cartons/pallet
Lifetime	100,000 hours @full load, 65°C Tcase

■ Safety Compliance

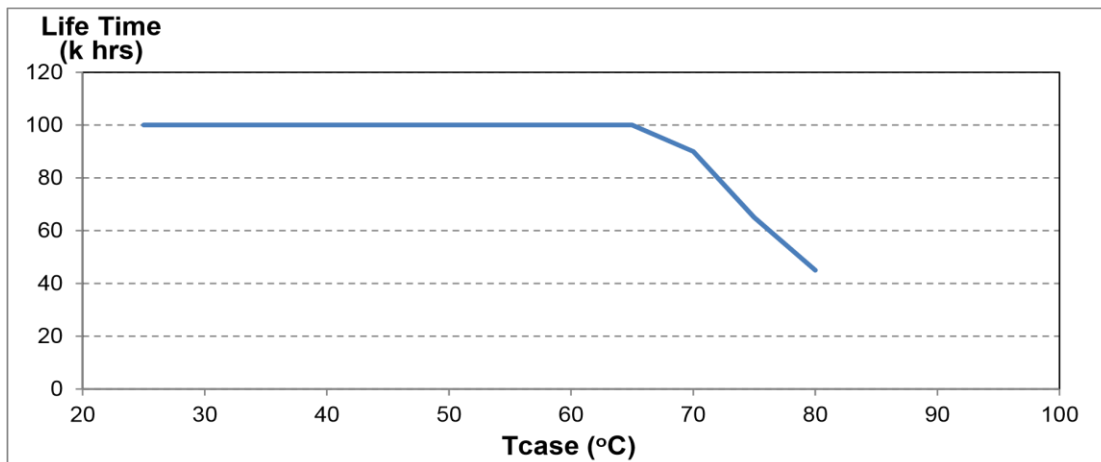
Safeties	UL8750
Electromagnetic Compliance	Per Title 47 CFR Part 15 Class B

■ **Electrical Specifications***(Tested with L4WCD050S140PS @25°C)

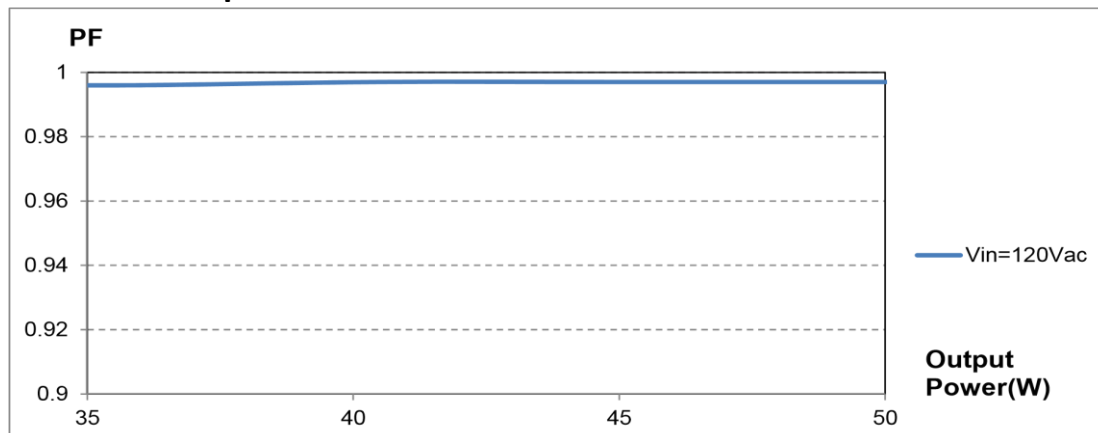
Output Current vs. Case Temperature (with $\pm 5^{\circ}\text{C}$ Tolerance)



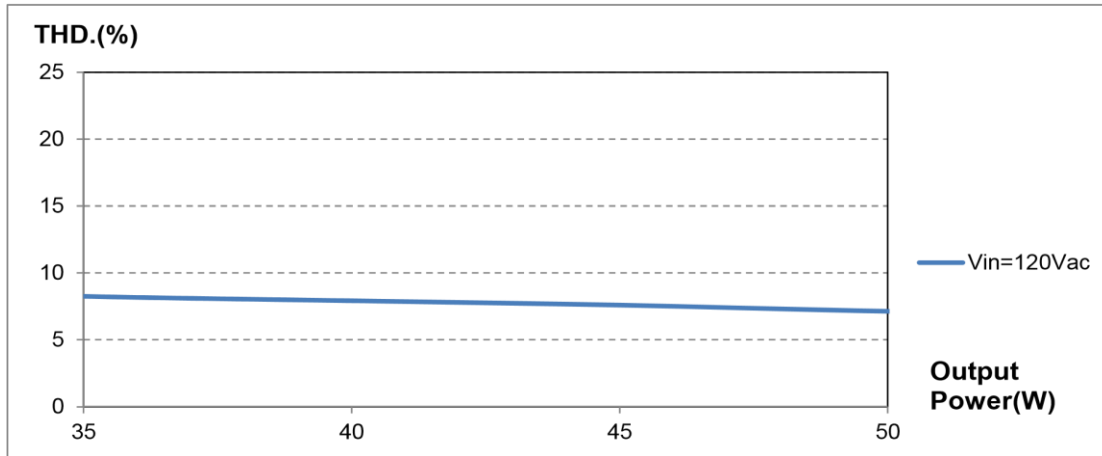
■ **Lifetime vs Case Temperature**



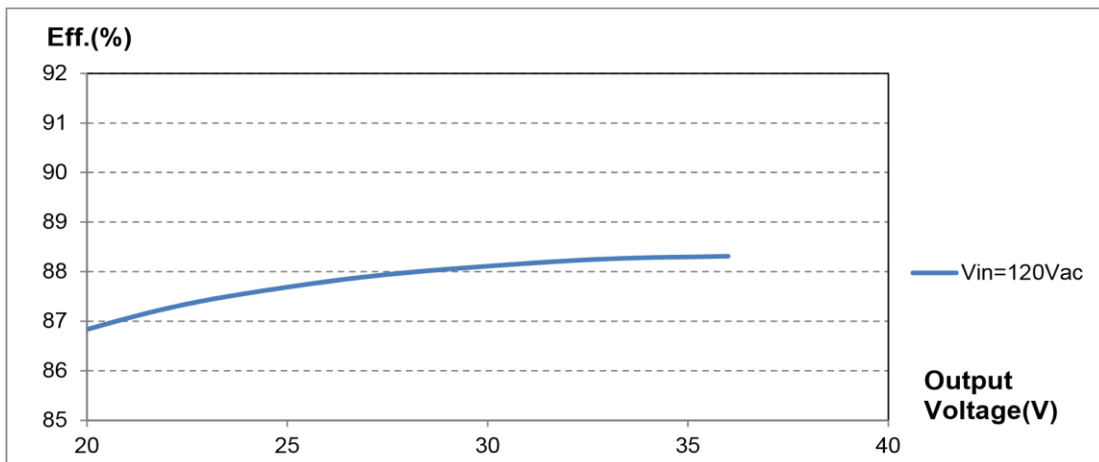
■ **Power Factor vs. Output Power**



■ **THD vs. Output Power**

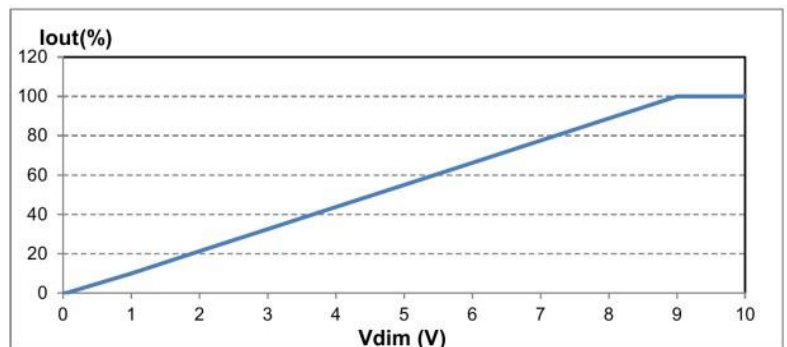
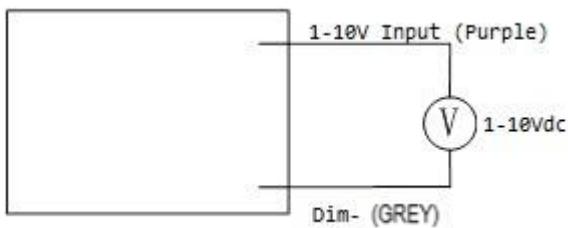


■ **Efficiency vs. Output Voltage**



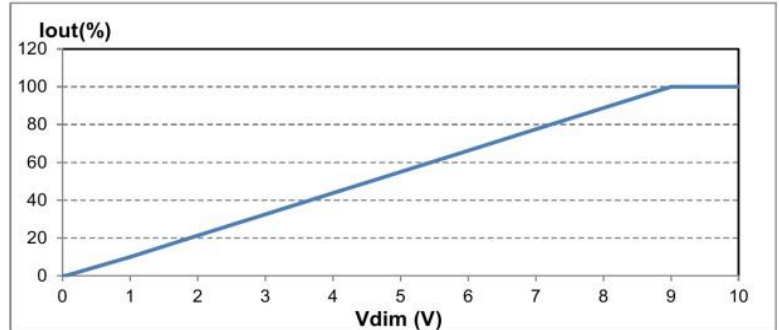
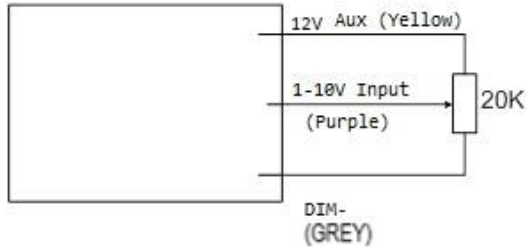
■ **Dimming**

Mode 1 : 1-10Vdc Input on Dimming Control

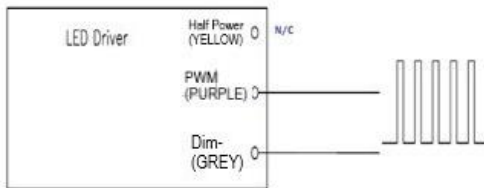


■ **Dimming(cont.)**

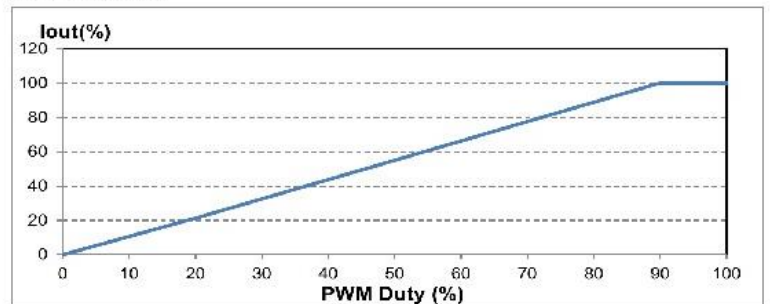
Mode 2 : Potentiometer on Dimming Control



Mode 3 : PWM Signal on Dimming Wires

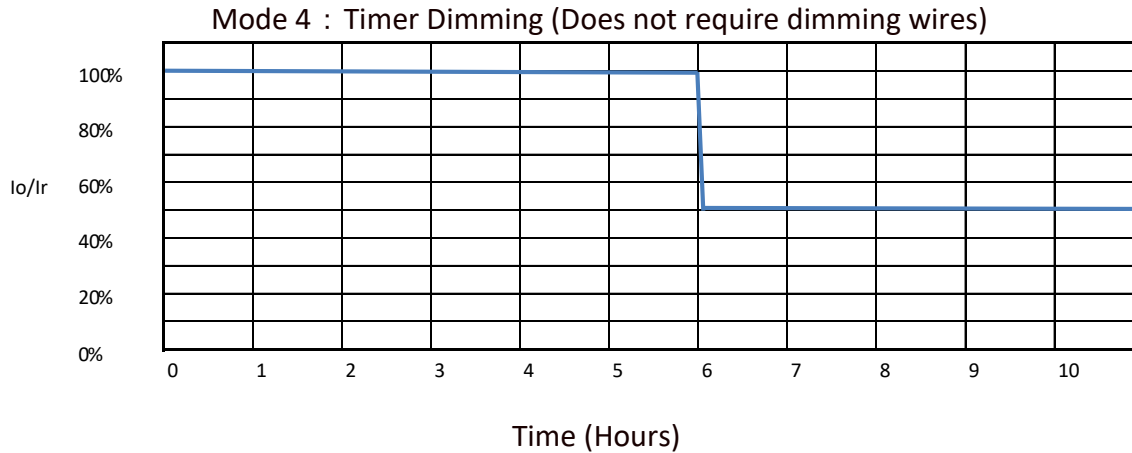


I_o/I_r vs PWM Duty



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%	

■ **Dimming(cont.)**



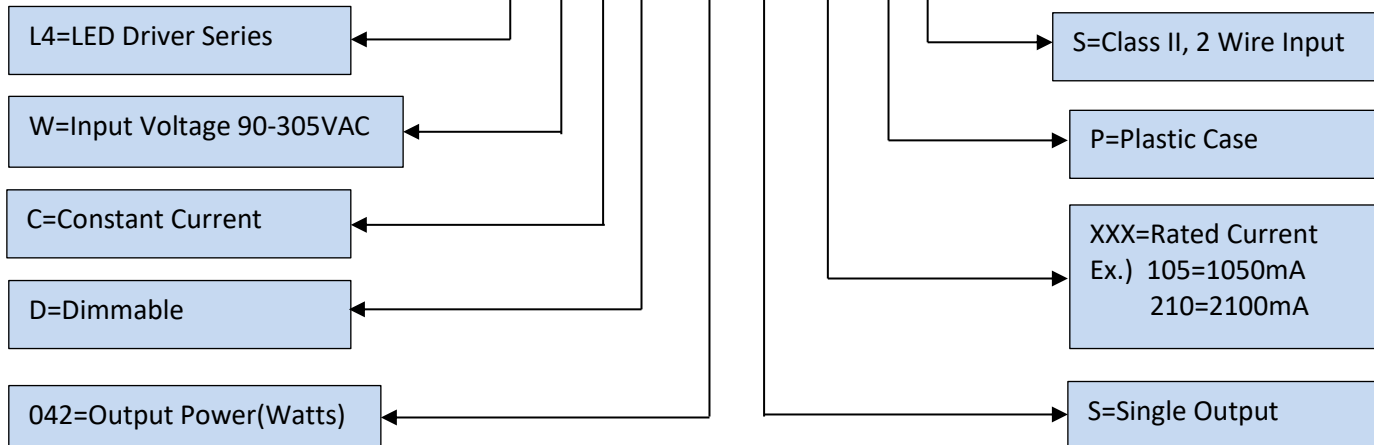
Standard power/time combination above, can be factory set to customer specification. Recycle AC to restart timer.

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.

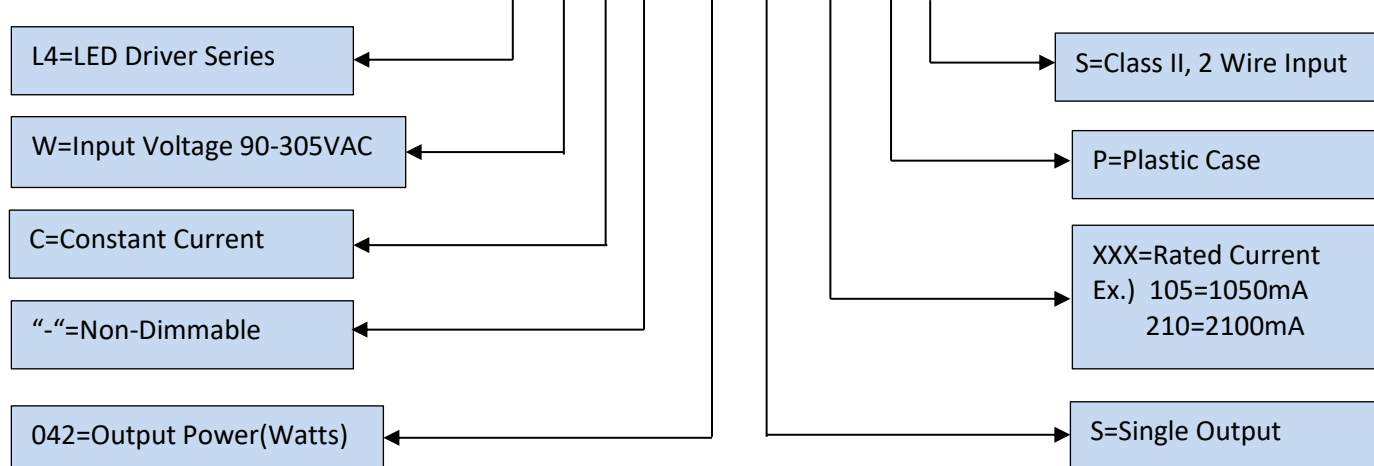
Part Number Scheme

L W C D 042 S XXX P S



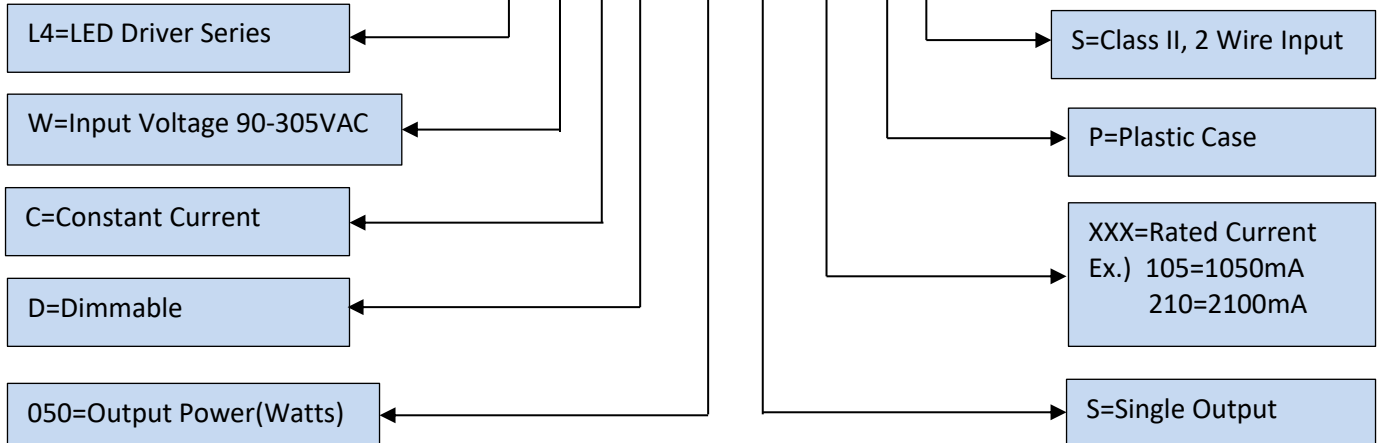
Part Number Scheme

L W C - 042 S XXX P S



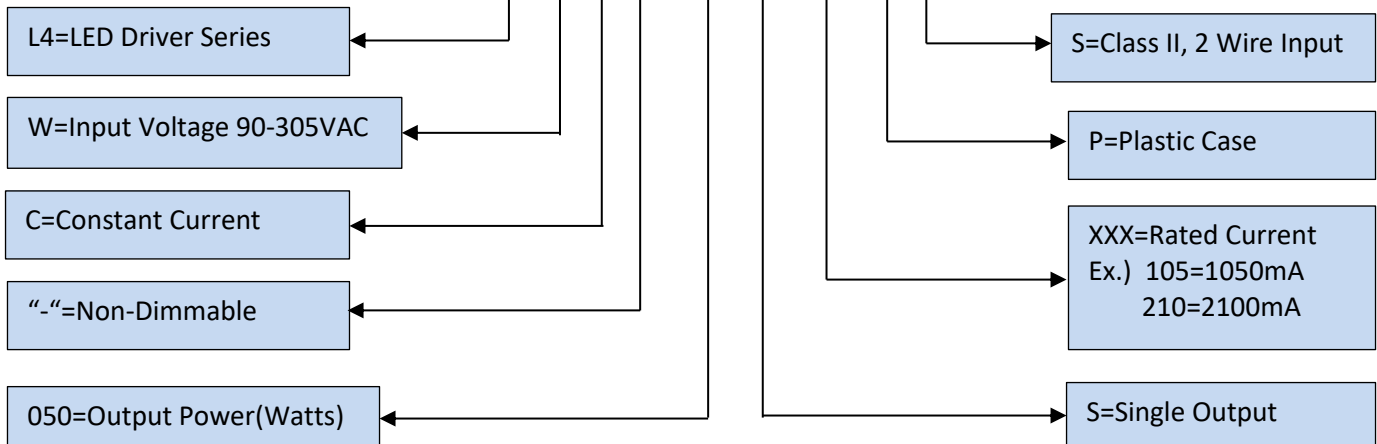
Part Number Scheme

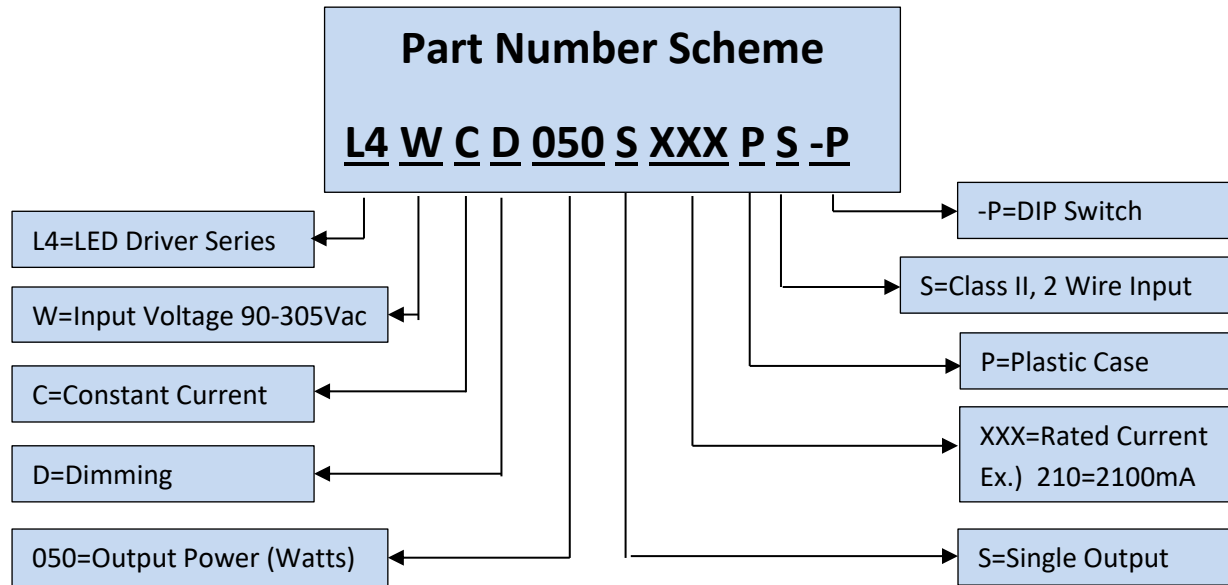
L 4 W C D 050 S XXX P S



Part Number Scheme

L 4 W C - 050 S XXX P S





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