

■ Features

- Power Rating: 75W
- Input Voltage: 90-305Vac
- Constant current design
- Output current (700-2000mA)
- Adjustable Current
- Efficiency up to 91%
- Compatible with 0-10V dimming
- UL Class 2 Output
- Lightning, OVP, SCP, OTP & Open Circuit Protection
- IP20/IP67
- 5-year warranty
- Surge Protection: 1kV, 2kV



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

■ Application

- Indoor LED lights
- LED lights with flexible current settings
- LED panels, LED fixture with super slim forms factors

■ 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
L4WCD075S200SS	108-305Vac	75W	27-54V	700mA	2000mA	91%	UL/cUL

■ Technical Data

Input voltage range	108-305Vac
Frequency	47-63Hz
Power factor	> 0.95 @115Vac & 80~100% Full load, > 0.90 @277Vac & 80~100% Full load
Output voltage	27-54V
Output power	75W
Max. Current ripple	200mA
Current Setting with External Resistor	Yes
Max input current	0.9A

■ **Technical Data(cont.)**

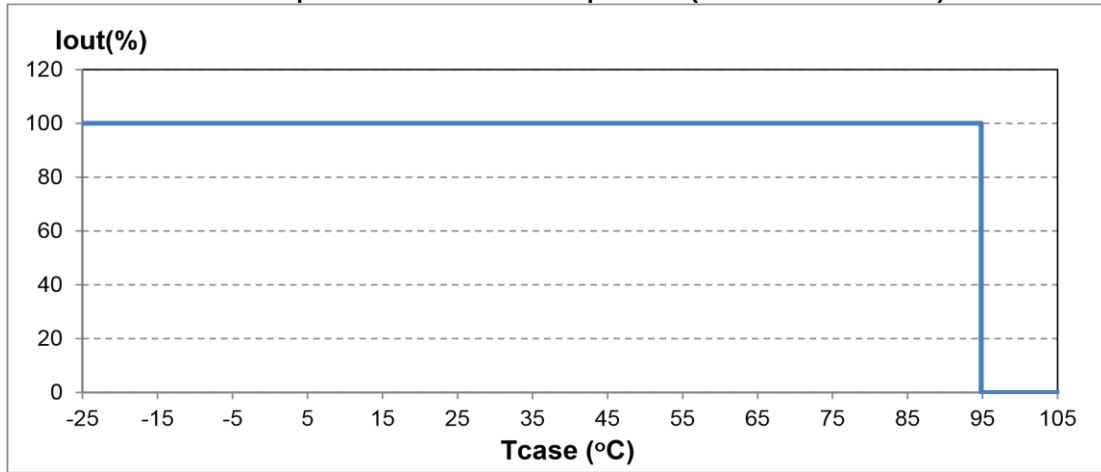
Max input Power	86W
Efficiency	91%
Max. open circuit voltage	60V
Dimming	0-10V Dimming
THD	<20% @ 120Vac & 80~100% full load, <20% @ 277Vac & 80~100% full load
Output Current	700-2000mA
Protection	OVP, SCP, OTP, and open circuit protection
Environmental Protection	UL Dry and Damp and Wet
Working Temperature	-20~+50°C
Max Case Temperature	90°C
Surge Protection	Line to line 1kV, Line to Earth 2kV
ANSI Surge Type	1.2/50μs Combination Wave (w/t 2Ω)
Isolation (Primary to Secondary)	3750Vac/10maMax/60 seconds
Dimension	428x31x26.5 mm (16.86x1.22x1.04 inch)
Mounting length	418.5 mm (16.48inch)
Overall length	428 mm (16.86inch)
Weight	0.44 kg (0.97 lb)
Lifetime	100,000 hours @full load, 65°C Tcase
Packing	0.44 kg; 33 units/carton; 20 cartons/pallet

■ **Safety Compliance**

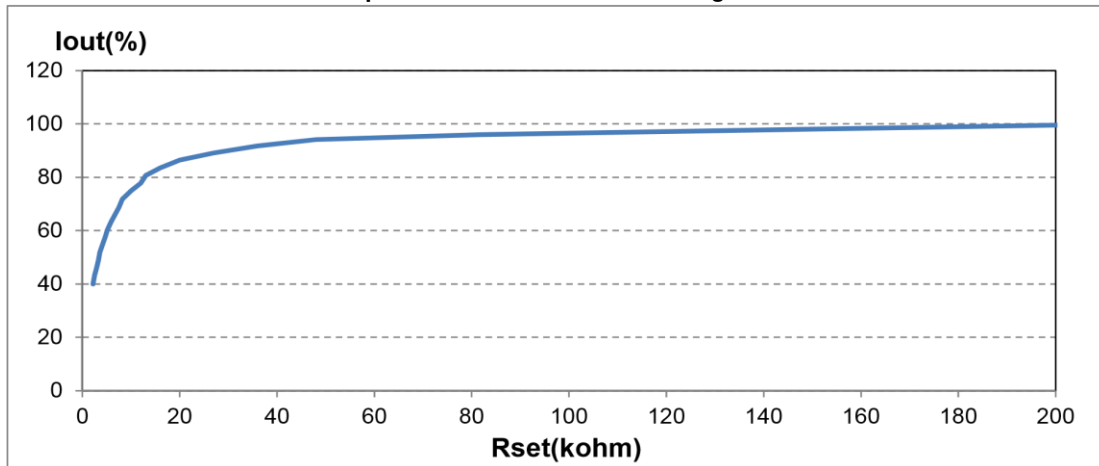
Safeties	UL1310 Class 2
Electromagnetic Compliance	Per Title 47 CFR Part 15 Class B

■ Electrical Specifications

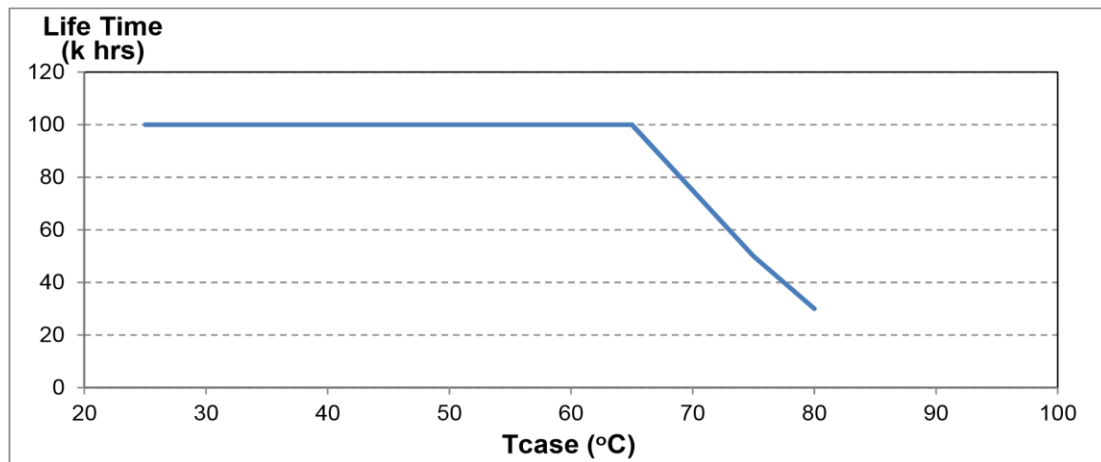
Output Current vs. Case Temperature (with $\pm 5^\circ\text{C}$ Tolerance)



Output Current vs. External Setting Resistor

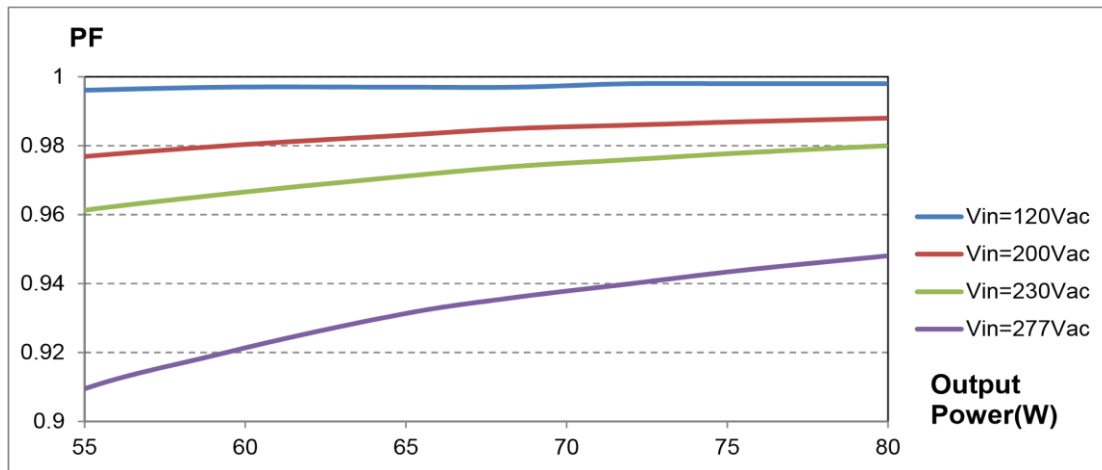


■ Lifetime vs Case Temperature



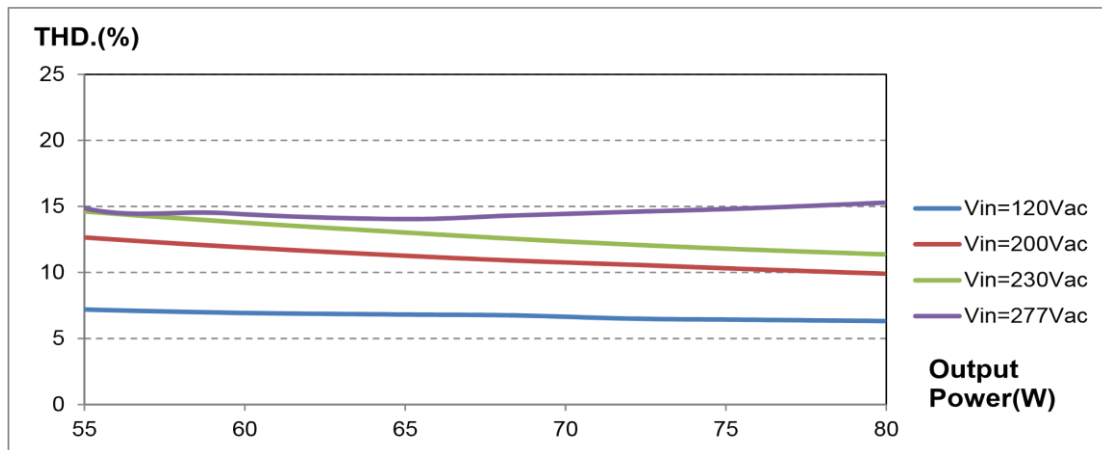
■ **Power Factor vs. Output Power**

(@ 25°C)

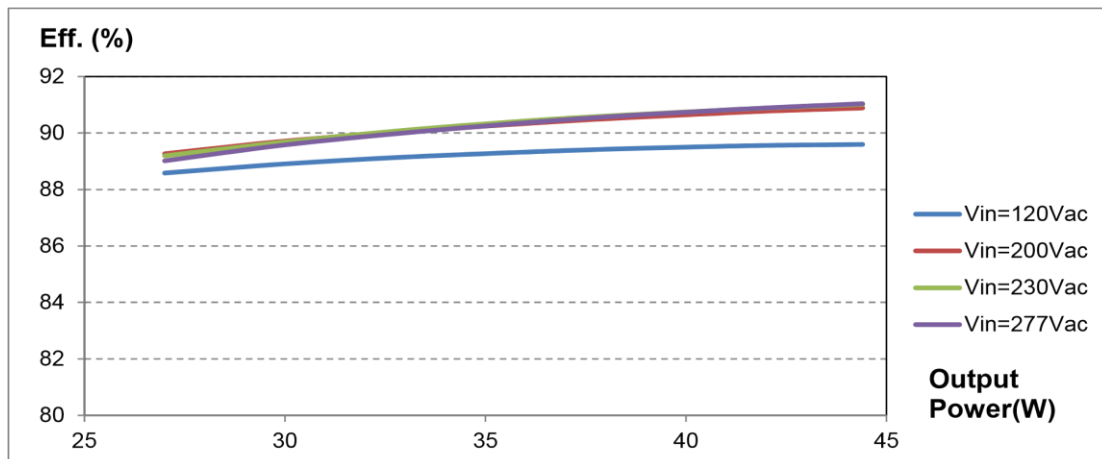


■ **THD vs. Output Power**

(@ 25°C)



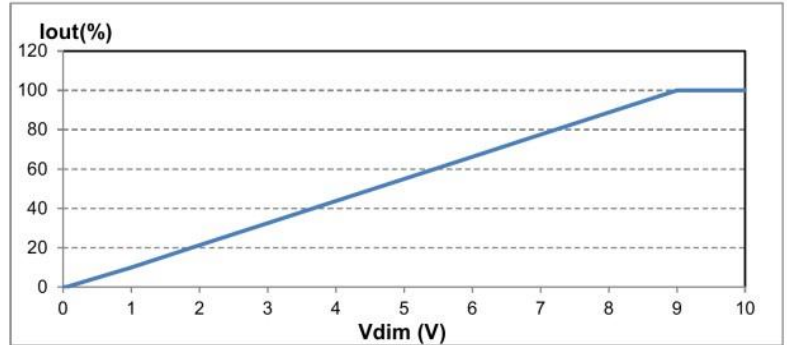
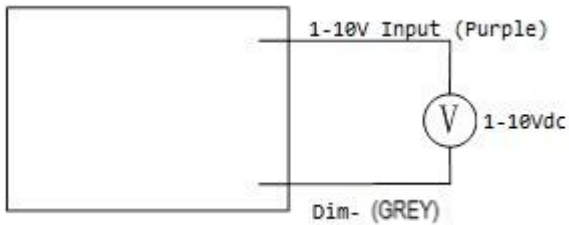
■ **Efficiency vs. Output power**



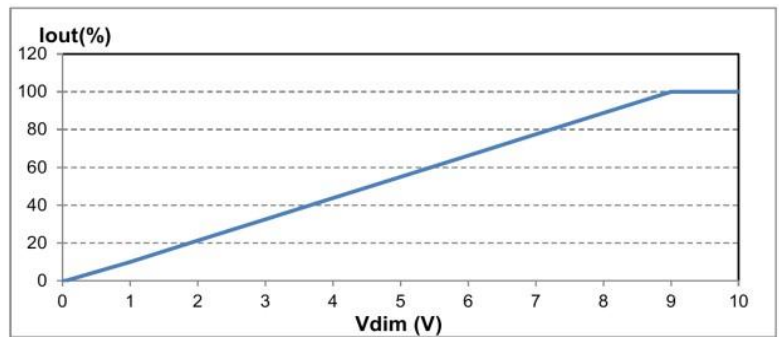
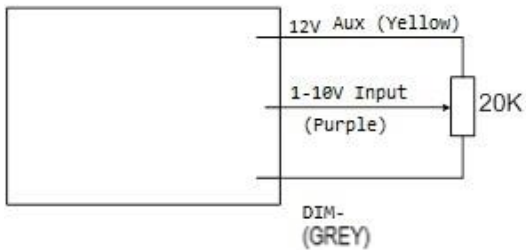
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■ Dimming

Mode 1 : 1-10Vdc Input on Dimming Control



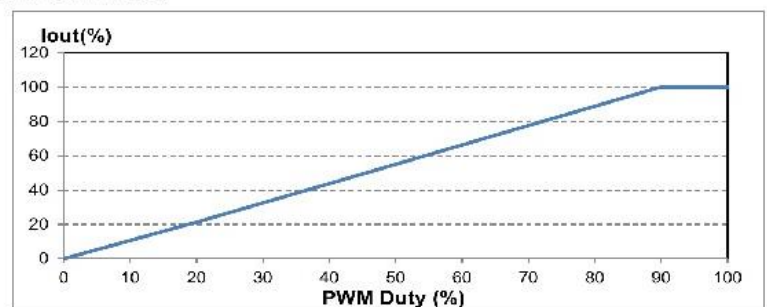
Mode 2 : Potentiometer on Dimming Control



Mode 3 : PWM Signal on Dimming Wires



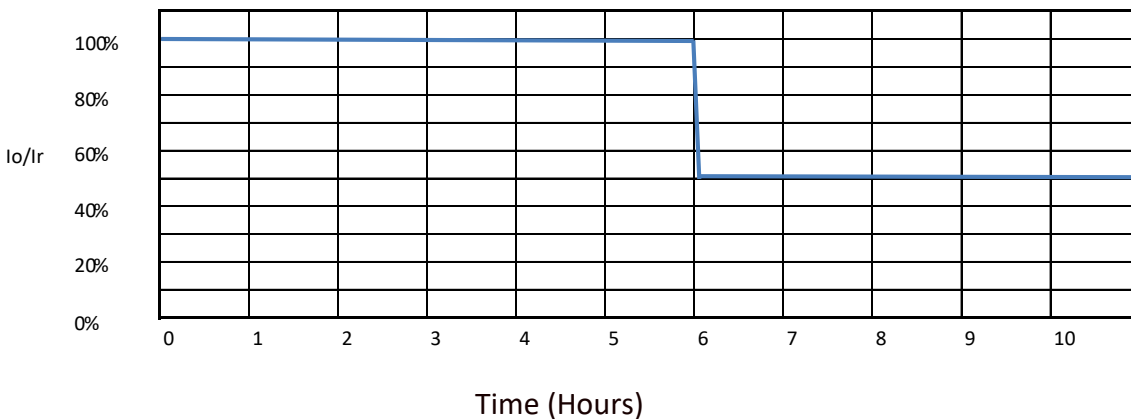
Io/Ir vs PWM Duty



■ **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%	

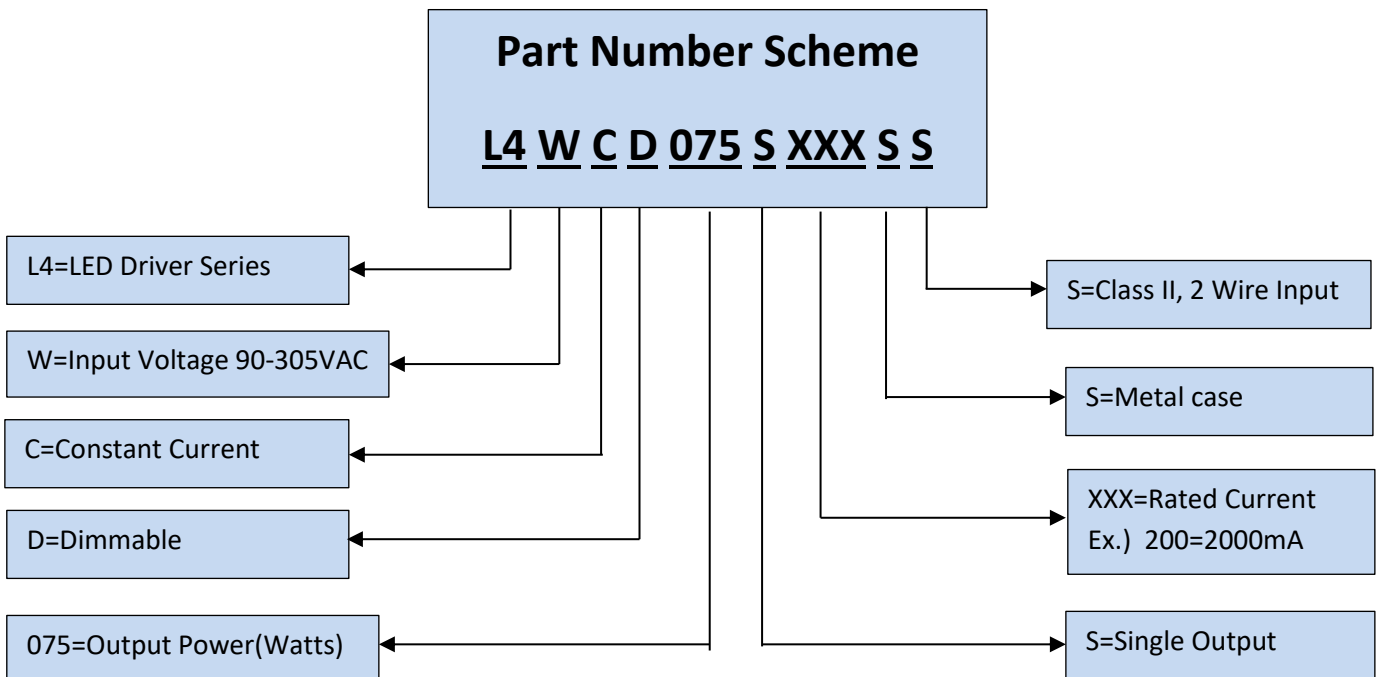
Mode 4 : Timer Dimming (Does not require dimming wires)



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.



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

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

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