

■ Features

- Power Rating: 320W
- Input Voltage: 305-528Vac
- Constant voltage design
- Output current (70mA to 8880mA)
- Digital programming with external module and software
- Efficiency up to 91%
- Compatible with 0(0.05)-10V, PWM, external resistor, clock, DMX dimming
- Lightning, OVP, SCP, OTP & Open Circuit Protection
- IP67
- 7-year warranty
- Surge Protection: L-N 5.5kV, L/N-Earth 11kV

RoHS
Compliant



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

■ Application

- Outdoor and indoor LED lights
- LED lights with flexible current settings
- Street lights, parking lights and architecture decoration lights
- LED horticulture lights

■ 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
L4HVP320S036ST	305-528Vac	320W	24-36V	888mA	8880mA	90%	UL/cUL
L4HVP320S048ST	305-528Vac	320W	32-48V	666mA	6660mA	90%	UL/cUL
L4HVP320S054ST	305-528Vac	320W	36-54V	593mA	5930mA	90.5%	UL/cUL
L4HVP320S058ST	305-528Vac	320W	40-58.8V	552mA	5520mA	90.5%	UL/cUL
L4HVP320S152ST	305-528Vac	320W	94-152V	210mA	2100mA	91.5%	UL/cUL
L4HVP320S228ST	305-528Vac	320W	142-228V	140mA	1400mA	91.5%	UL/cUL
L4HVP320S428ST	305-528Vac	320W	320-428V	70mA	700mA	91.5%	UL/cUL

■ Technical Data

Input voltage range	305-528Vac
Frequency	47-63Hz
Power factor	> 0.95 @347Vac & 80~100% full load, > 0.90 @480Vac & 80~100% full load
Output voltage	24-428V

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■ Technical Data(cont.)

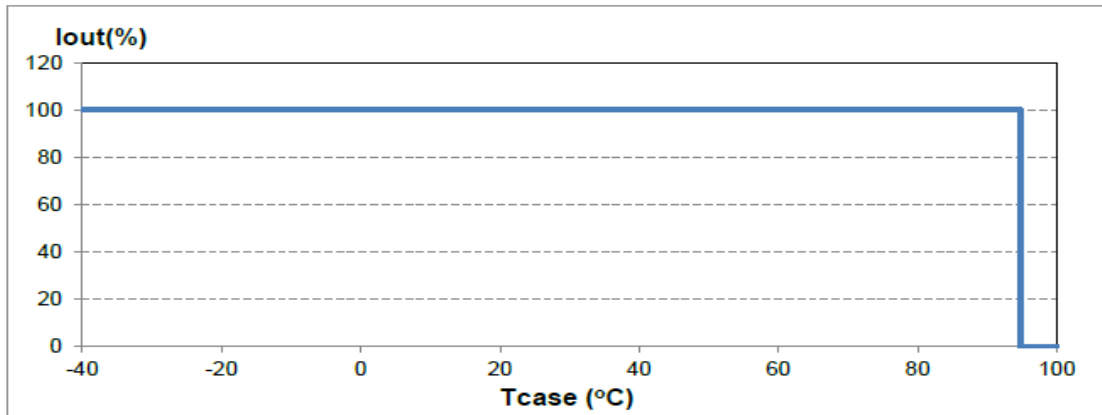
Max Current Ripple	±10%
Max input current	3.5A
Max input Power	360W
Dimming	0(0.05)-10V, PWM, external resistor, clock, DMX
Output AUX Power Voltage (Optional)	12V
Output AUX Power Current (Optional)	0-100mA
Output power	320W
Max. Voltage ripple	±0.5%
Efficiency	91.5-92.5%
Max. open circuit voltage	39V, 51V, 63V, 63V 160V, 240V, 450V
THD	< 20% @277Vac & 80~100% full load, < 20% @400Vac & 80~100% full load
Protection	OVP, SCP, OTP, and Open Circuit Protection
Environmental Protection	UL Dry &Damp and wet
Working Temperature	-40~+70°C
Max Case Temperature	90°C
Surge Protection	L-N 5.5kV, L/N-Earth 11kV
ANSI Surge Type	1.2/50µs Combination Wave (w/t 2Ω)
Isolation (primary to Secondary)	3750Vac/10maMax/60 seconds
Isolation (primary to Earth)	1875Vac/10maMax/60 seconds
Isolation(Secondary to Earth)	1875Vac/10maMax/60 seconds
Dimension	297x84x42.5 mm (11.7x3.31x1.67 inch)
Mounting Length	312 mm (13.2 inch)
Overall Length	322 mm (13.67 inch)
Weight	2.5 kg (5.5 lb)
Lifetime	>70,000 hours @ full load, 75°C Tcase
Packing	2.5 kg; 10 units/carton; 27 cartons/pallet

■ Safety Compliance

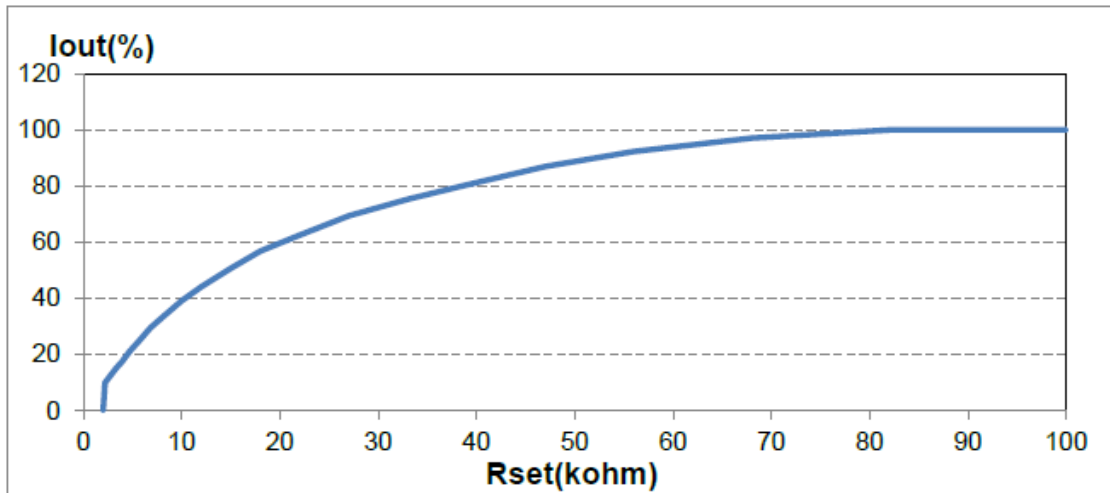
Safeties	UL8750
Electromagnetic Compliance	Per Title 47 CFR Part 15 Class B

■ **Electrical Specifications**

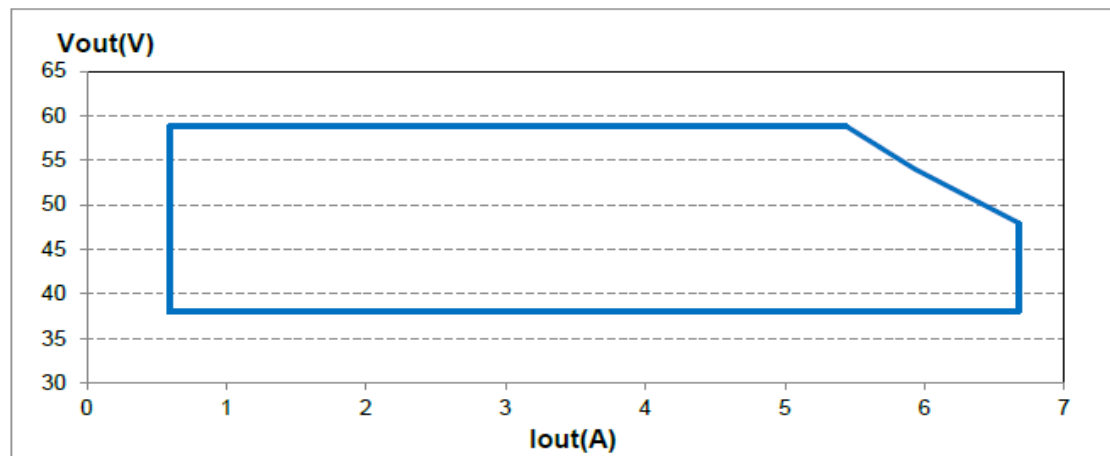
Output Current vs. Case Temperature (with $\pm 5^{\circ}\text{C}$ Tolerance)



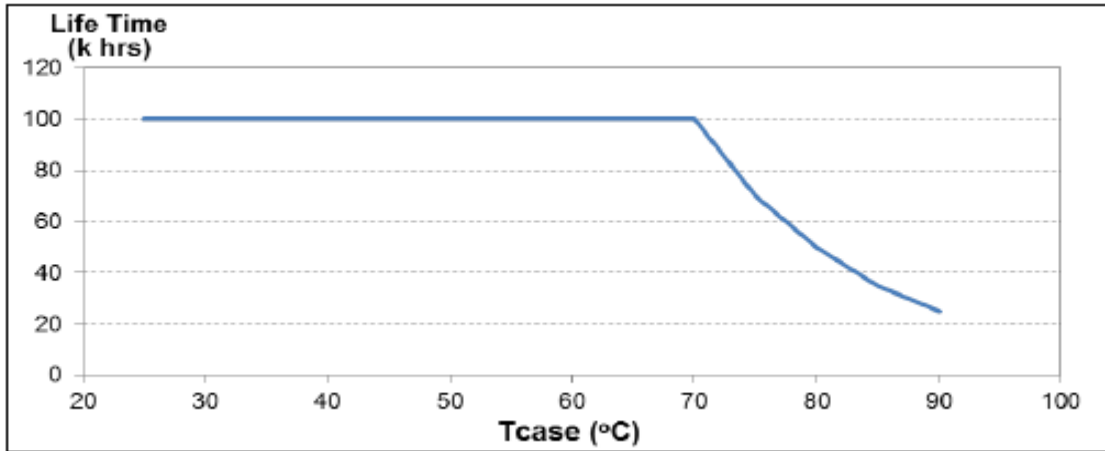
Output Current vs. External Setting Resistor



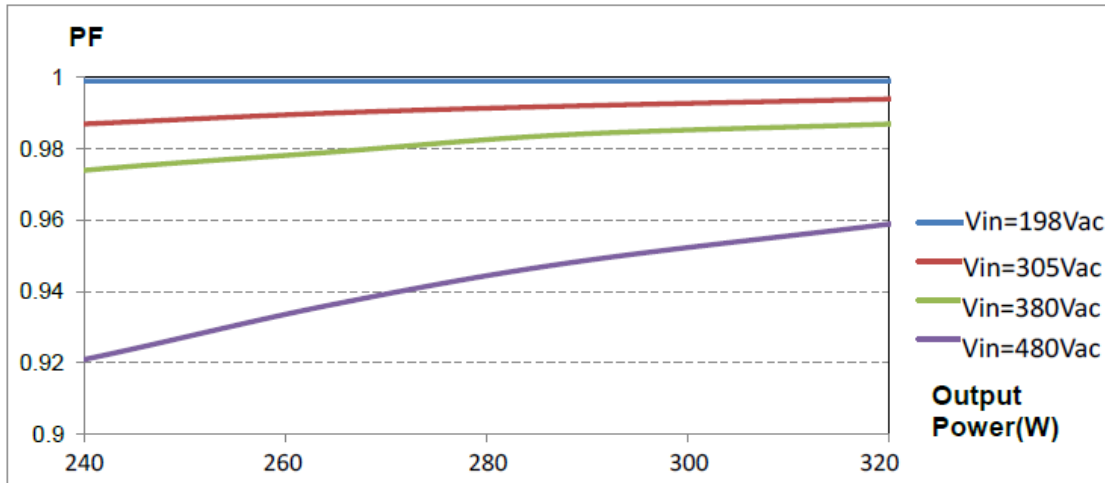
I-V Programming Area: Output Voltage vs. Output Current



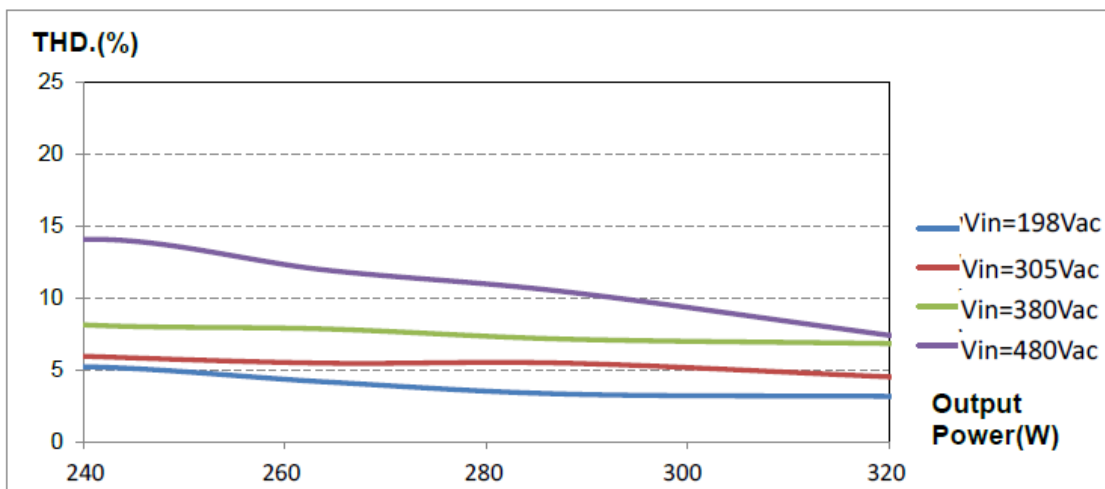
■ **Lifetime vs Case Temperature**



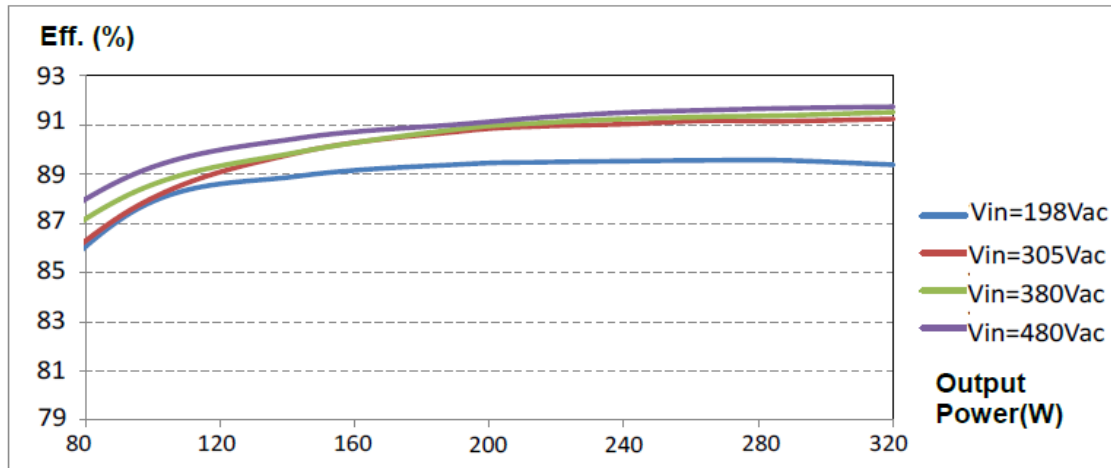
■ **Power Factor vs. Output Power**



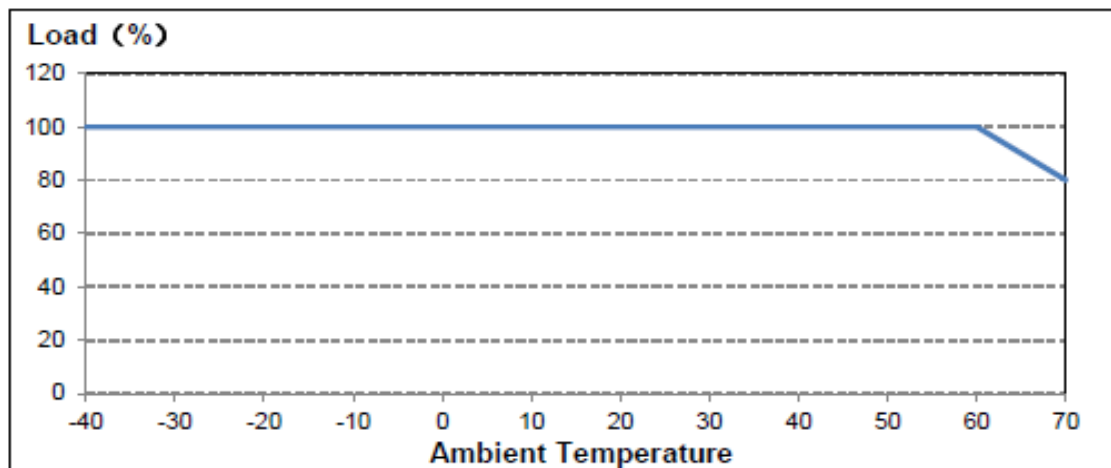
■ **THD vs. Output Power**



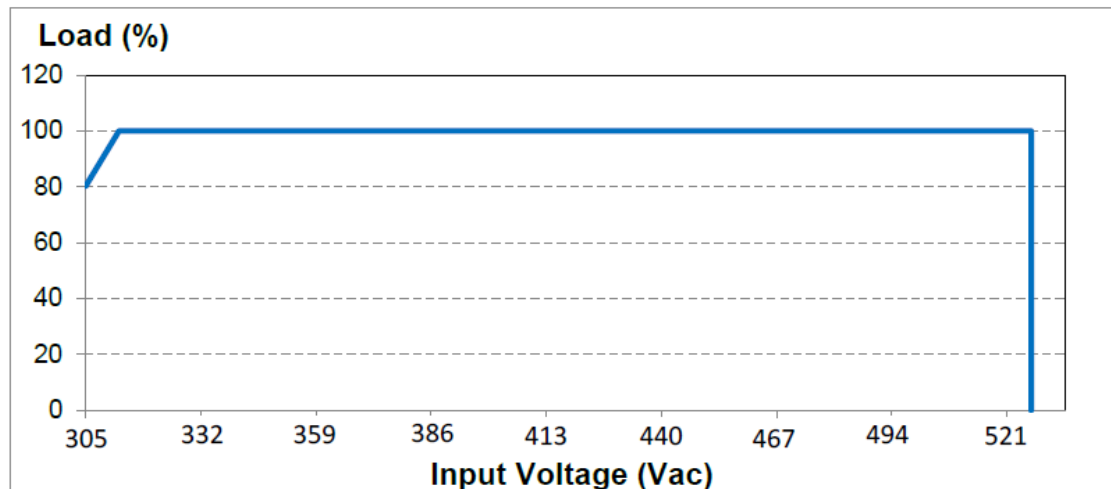
■ Efficiency vs. Output Power



■ Derating Curve

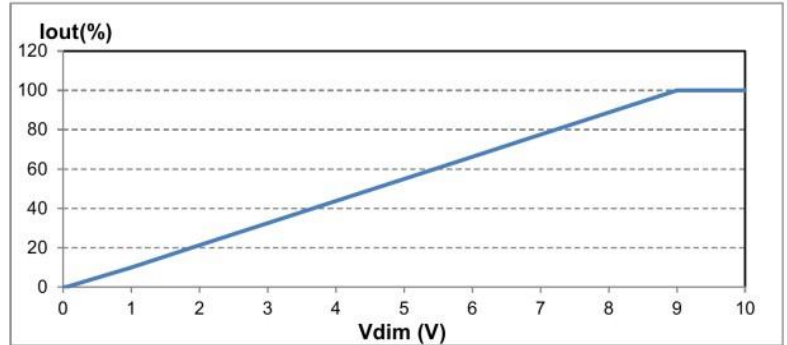
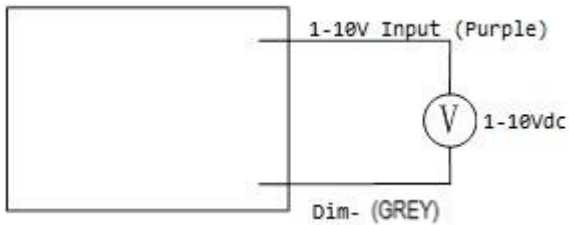


■ Static Characteristics

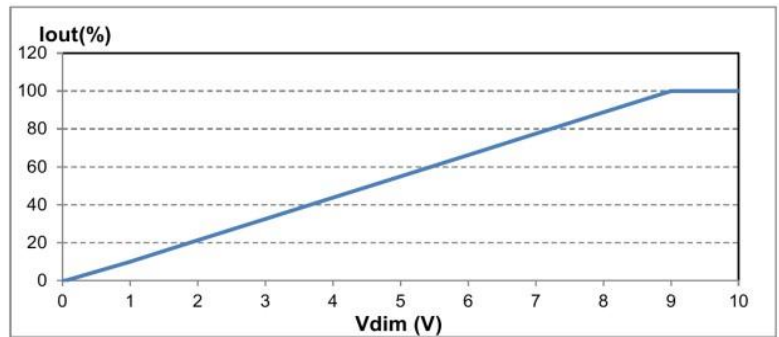
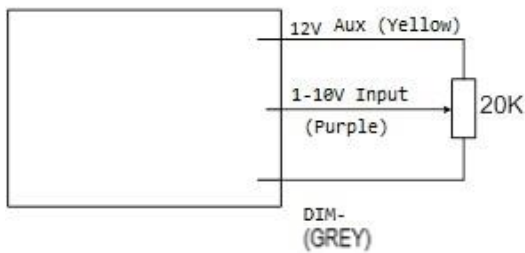


■ **Dimming**

Mode 1 : 1-10Vdc Input on Dimming Control



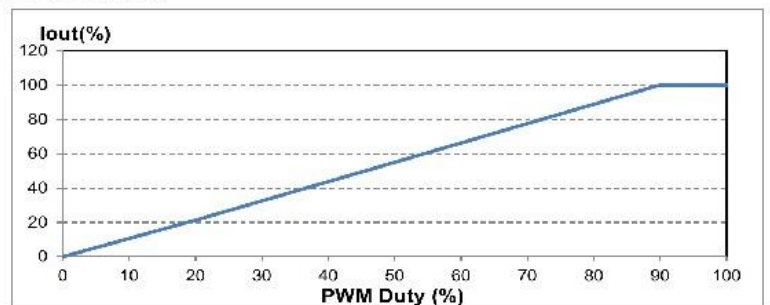
Mode 2 : Potentiometer on Dimming Control



Mode 3 : PWM Signal on Dimming Wires



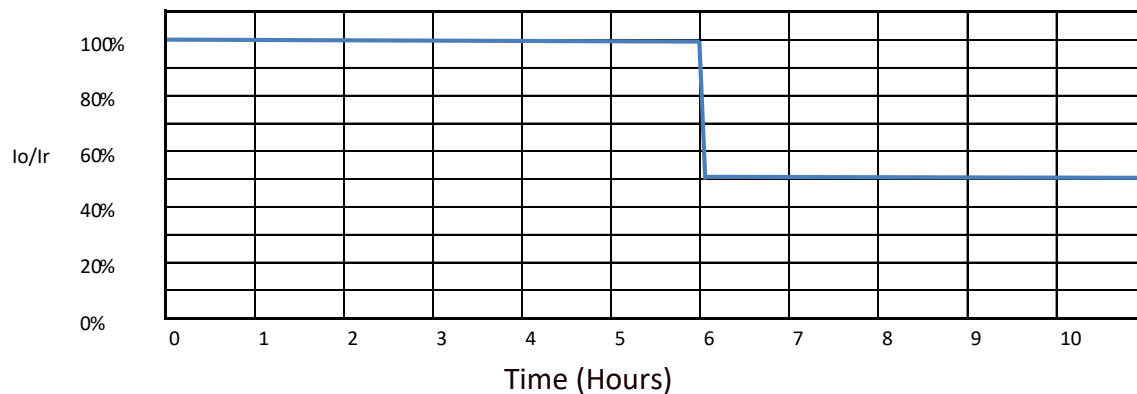
I_o/I_r vs PWM Duty



■ **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)

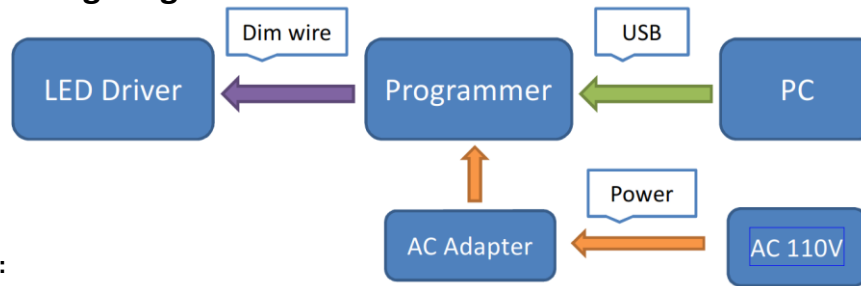


Standard power/time combination above, can be factory set to customer specification. Recycle AC to restart timer.

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.

■ PC Programming Diagram



NOTES:

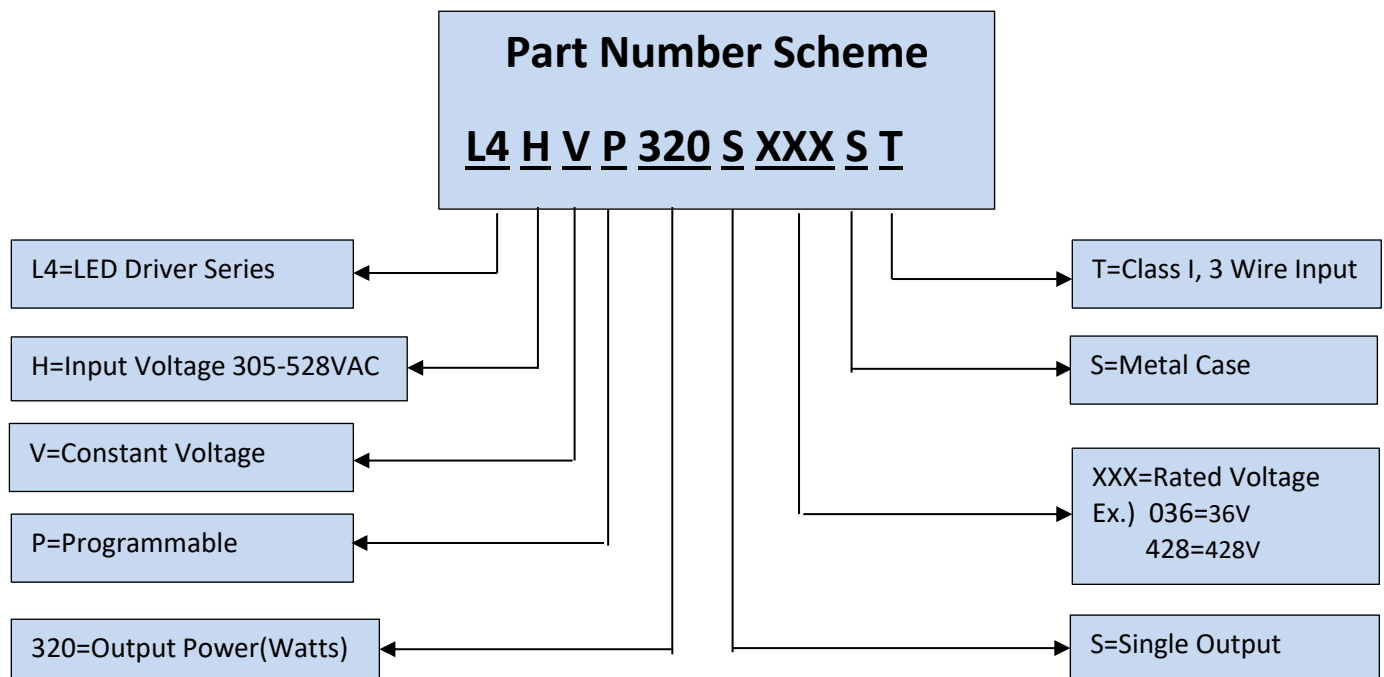
1. To set the desired output current, begin by installing the programming software on your PC and connect the programming module to your PC.
2. Next, connect the LED Driver to the programming module using the Dimming wires.
3. Please note an external power source is needed to provide power to the programming module.
4. Contact Autec Sales for current programming software and complete programming instructions.

■ Mechanical Diagram



- Notes**
1. Outline Dimension 322L*84W*42.5H
 2. Input and Output Connector and Pin Assignment
 3. The Yellow Dimming wire is optional for 12V Auxiliary Power

Wire Specifications		Colors
Input Wire	3/#18AWG	L= Black, N=White, GND=Green
Output	2/#18AWG	V+ is Red, V- is Black
Dimming Wire	3/#22AWG	Dim + is Purple, Dim Return is Grey, AUX12V+/100mA is Yellow



***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.**