

■ Features

- Power Rating: 720W
- Input Voltage: 108-305Vac
- Constant current design
- Output current (12000mA-20000mA)
- Output current programmable
- Efficiency up to 96%
- Compatible with 0(0.05)-10V, PWM, external resistor, Clock, DMX dimming applications
- UL Class 2 Output
- Lightning, OVP, SCP, OTP & Open Circuit Protection
- IP67
- 7-year warranty
- Surge Protection: Line to line 5.5kV, Line to earth 11kV



*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
- Parking lights and Architecture decoration lights
- LED horticulture lights
- LED fishing 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
L4WCP720S2000ST	108~305Vac	720W	24-36V	20000mA	20000mA	95.5%	UL/cUL
L4WCP720S1714ST	108~305Vac	720W	32-48V	17140mA	17140mA	95.5%	UL/cUL
L4WCP720S1333ST	108~305Vac	720W	36-54V	13330mA	13330mA	96%	UL/cUL
L4WCP720S1220ST	108~305Vac	720W	40-58.8V	12200mA	12200mA	96%	UL/cUL

■ Technical Data

Input voltage range	108-305Vac
Frequency	47-63Hz
Power factor	> 0.95 @120Vac & 80~100% full load, > 0.90 @277Vac & 80~100% full load
Output voltage	24-58.8V
Output power	720W
Max. Voltage ripple	250mVp-p

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■ Technical Data(cont.)

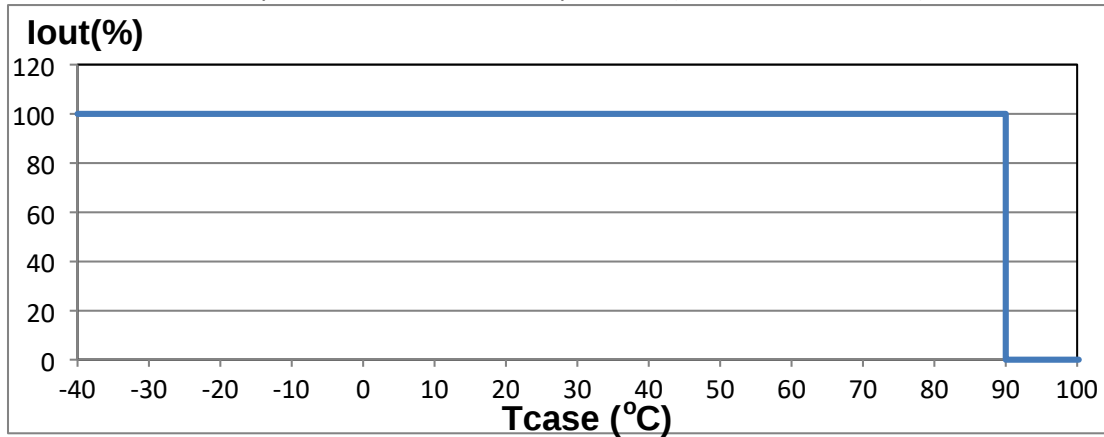
Max. Current ripple	±5%
Max input current	7.8A
Max input Power	820W
Efficiency	95.5%-96%
Output AUX Power Voltage (optional)	12V
Output AUX Power Current (optional)	0-100mA
Dimming	0(0.05) ~10V, PWM, External Resistor, Clock, DMX
Current Programmable	Yes
Max. open circuit voltage	39V, 51V, 61.8V, 61.8V
THD	<20% @ 120Vac & 80~100% full load, <20% @ 277Vac & 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 / 10mA Max / 60seconds
Isolation (Secondary to Earth)	500Vac / 10mA Max / 60seconds
Case Type	Metal
Dimension	280x123x54 mm (11.02x4.84x2.13 inch)
Mounting Length	290 mm (11.42inch)
Overall Length	304 mm (11.97 inch)
Weight	3.56 kg (7.85 lb)
Lifetime	>70,000 hours @ full load, 75°C Tcase
Packing	3.56 kg; 6 units/carton; 27 carton/pallet

■ Safety Compliance

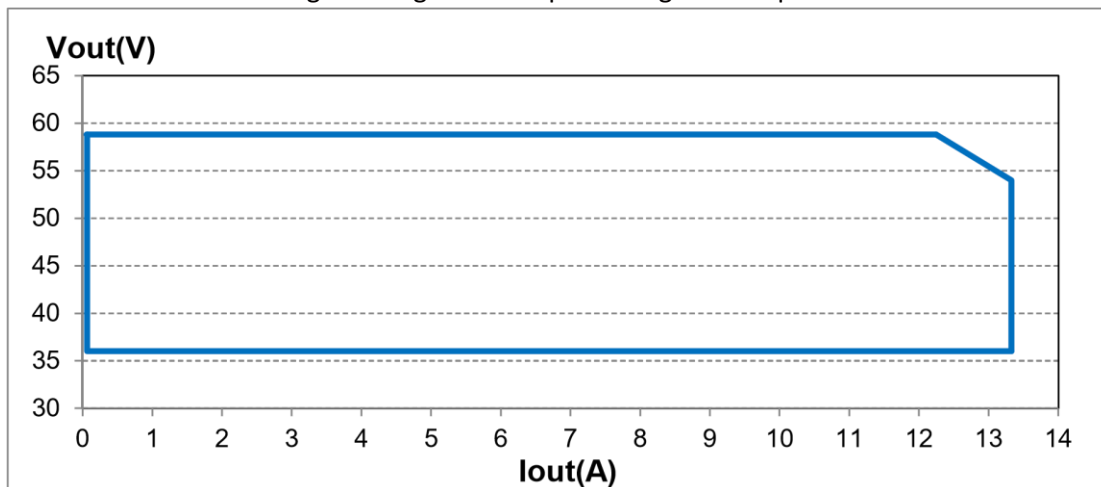
Safeties	UL8750
Electromagnetic Compliance	Per Title 47 CFR Part 15 Class A

■ **Electrical Specifications***(L4WCP720S1330ST @25°C)

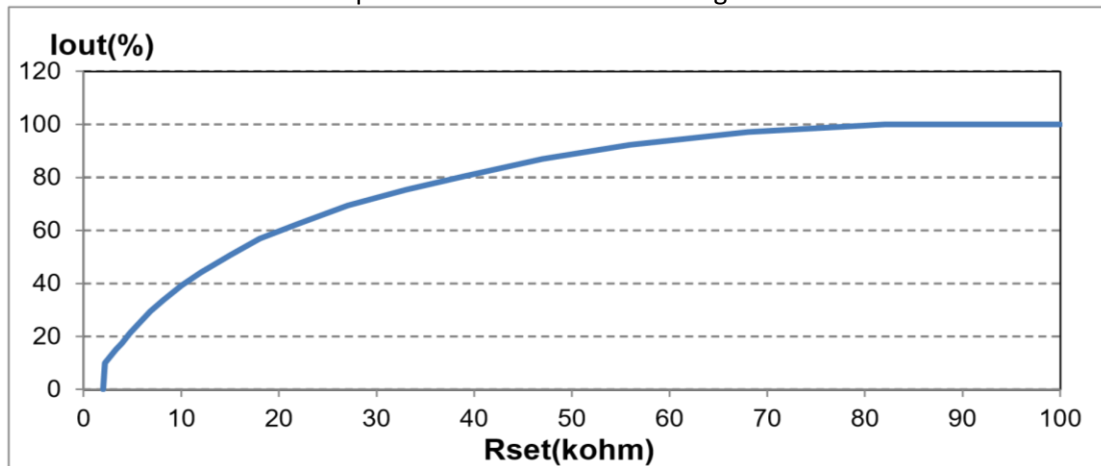
Output Current vs. Case Temperature (with $\pm 5^{\circ}\text{C}$ Tolerance)



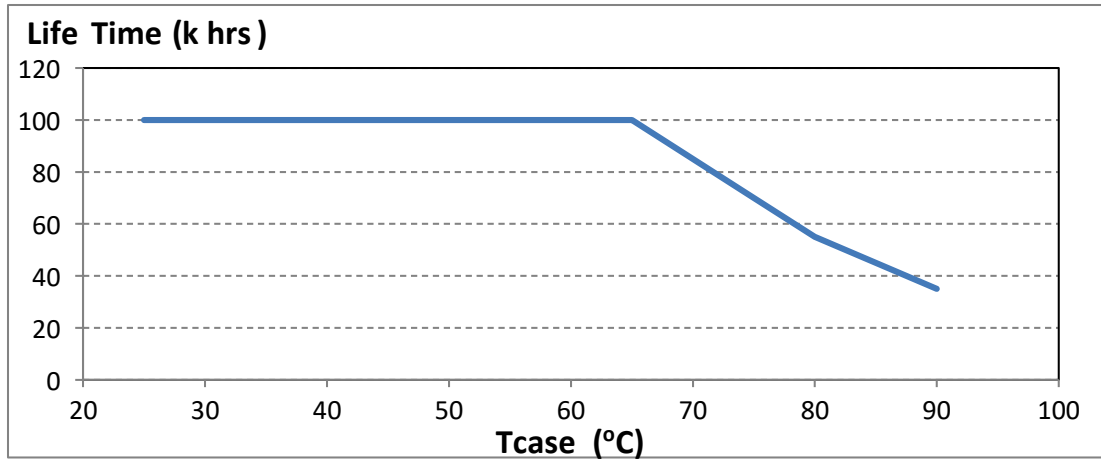
I-V Programming Area: Output Voltage vs. Output Current



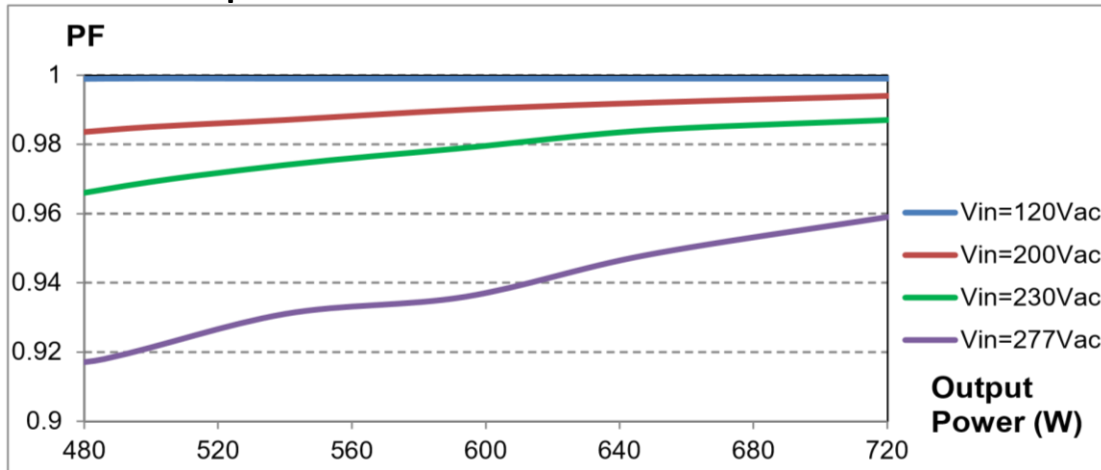
Output Current vs. External Setting Resistor



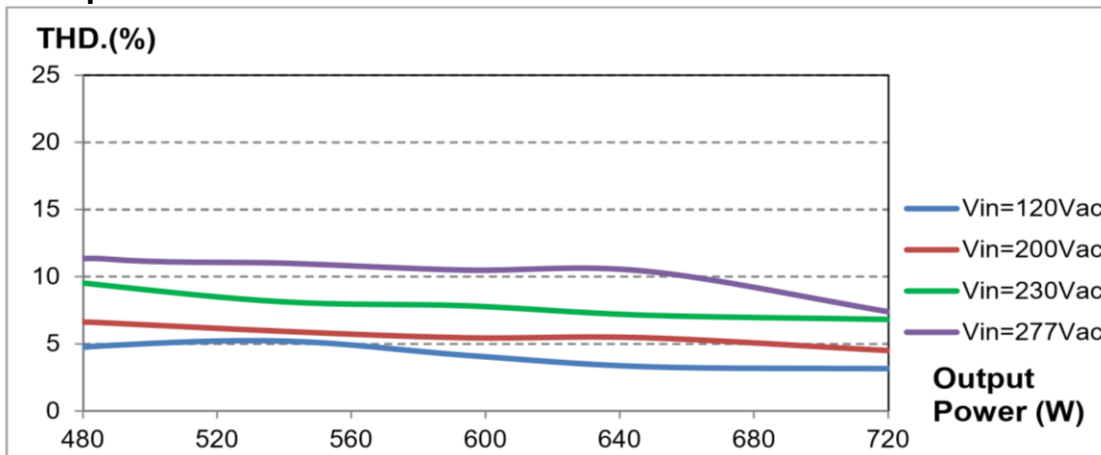
■ **Lifetime vs Case Temperature**



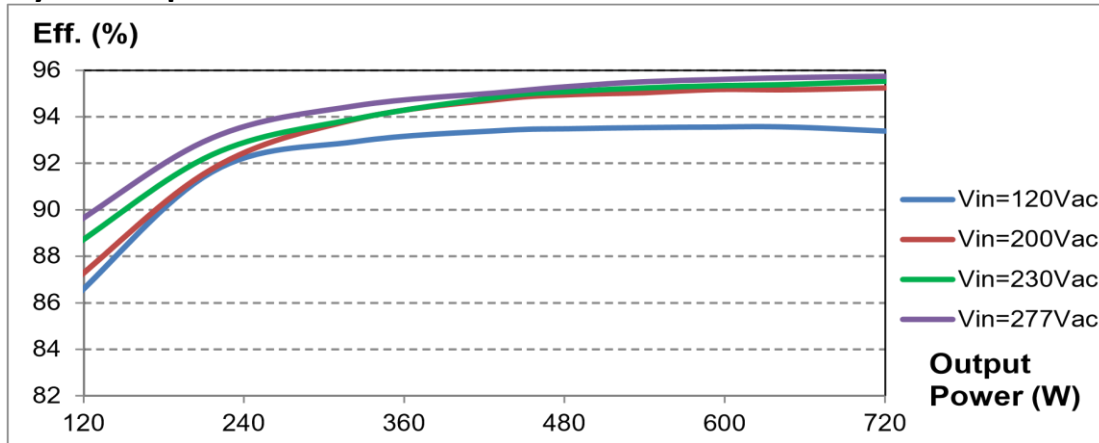
■ **Power Factor vs. Output Power**



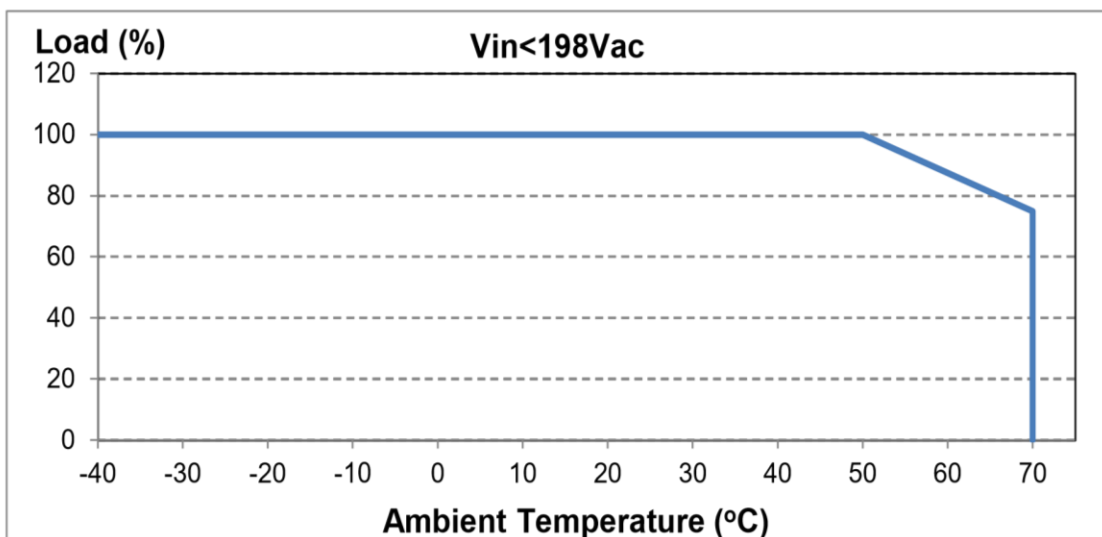
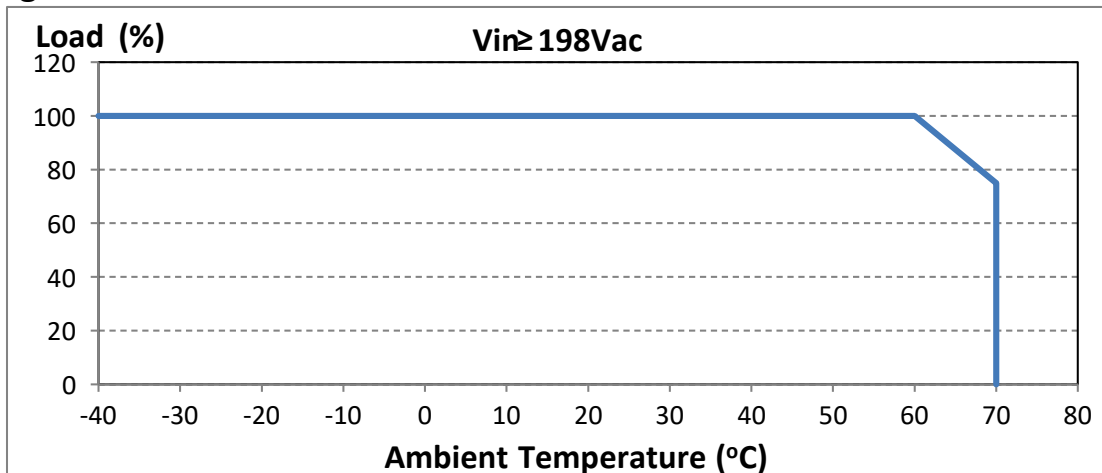
■ **THD vs. Output Power**



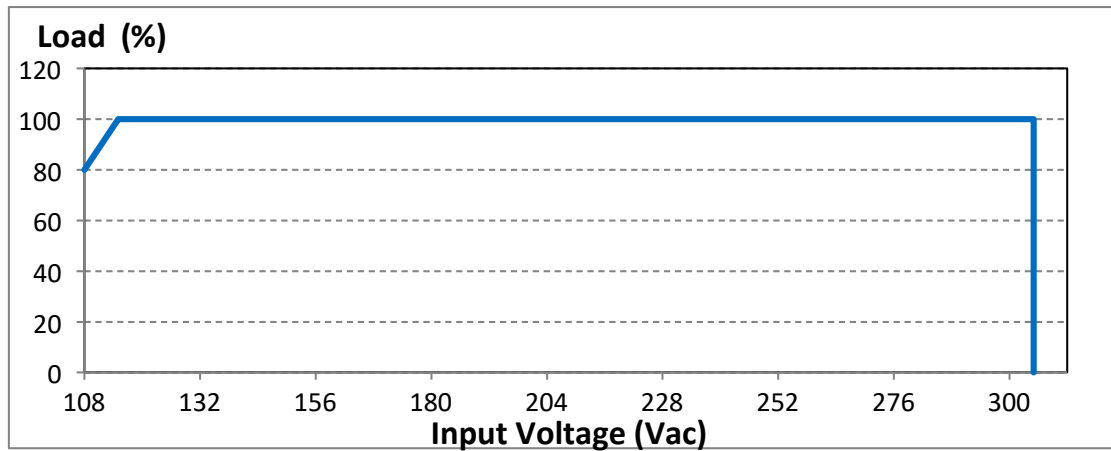
■ **Efficiency vs. Output Power**



■ **Derating Curve**

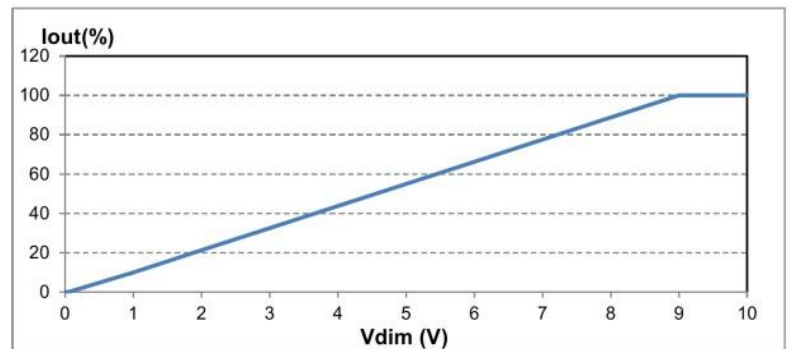
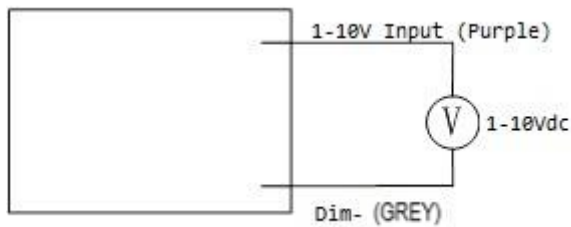


■ Static Characteristics

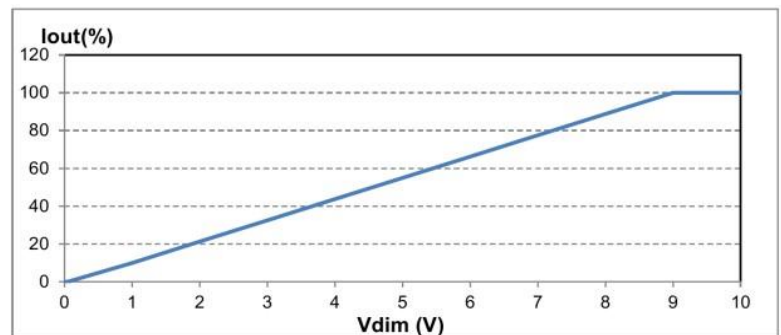
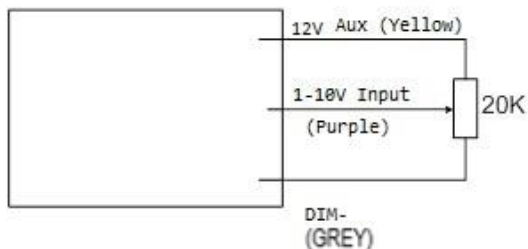


■ Dimming

Mode 1 : 1-10Vdc Input on Dimming Control



Mode 2 : Potentiometer on Dimming Control

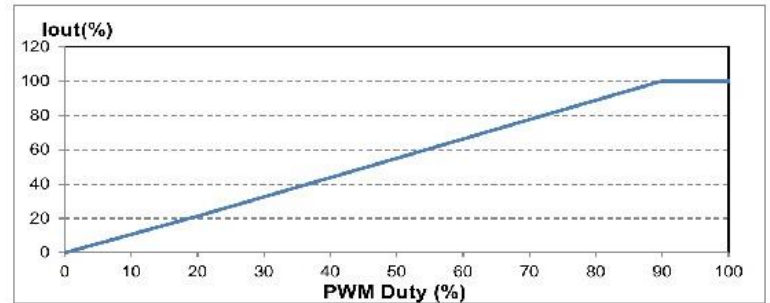


■ **Dimming(cont.)**

Mode 3 : PWM Signal on Dimming Wires

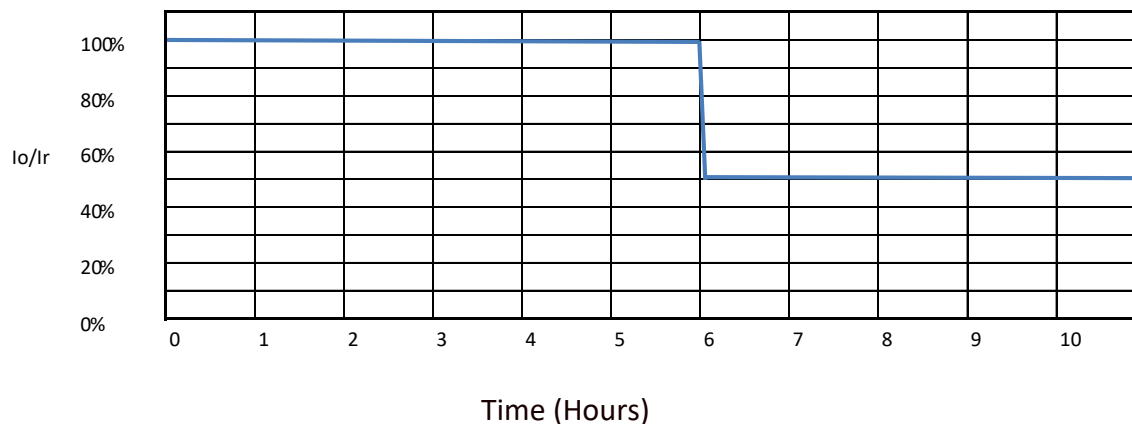


Io/Ir vs PWM Duty



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)

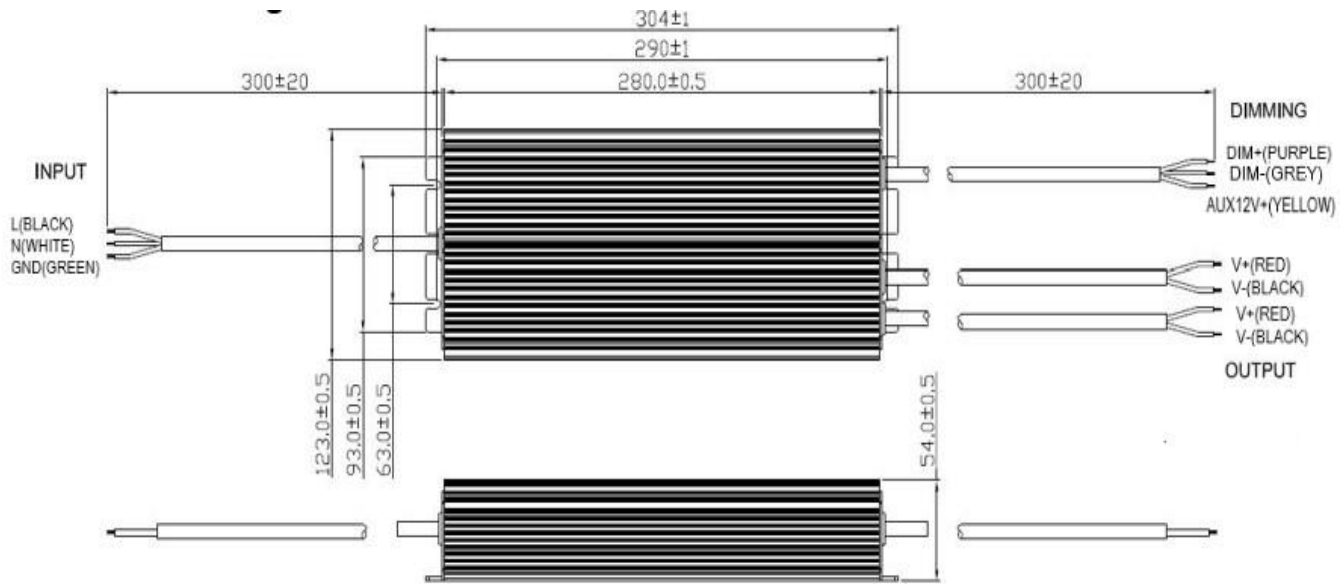


Standard power/time combination above, can be factory set to customer specification. Recycle AC to restart timer.

NOTE:

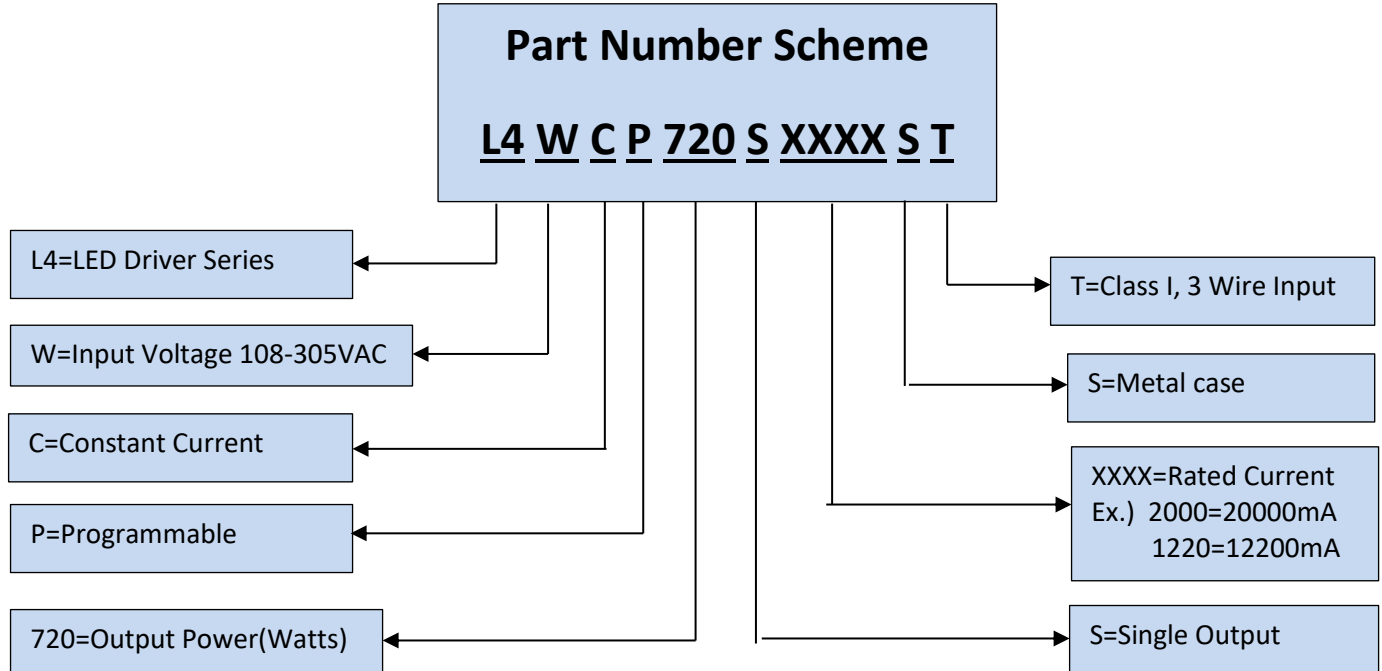
1. If the dimming function is not used, cap the dimming wires and don't use them.
2. I_o is actual output current and I_r is rated current without dimming control.
3. For the driver to operate properly, the load voltage must be maintained above the minimum voltage threshold, approximately 50% of the 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.

■ Mechanical Diagram



- Notes:
1. Outline Dimension: 304L*123W*54H
 2. Input and Output Connector and Pin Assignment
 3. The Yellow Dimming wire is optional for 12V Auxiliary Power

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.**