

■ Features

- Power Rating: 1200W
- Input Voltage: 305-660Vac
- Constant current design
- Output current (20400mA-33400mA)
- Programmable
- Efficiency up to 96%
- Compatible with 0(0.05)-10V, PWM, external resistor, clock, DMX Dimming
- UL Class 2 Output
- Lightning, OVP, SCP, OTP & Open Circuit Protection
- IP67
- 7-year warranty
- Surge Protection: L-N 5.5kV, L/N-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
L4HCP1200S3340ST	305~660Vac	1200W	24-36V	33400mA	33400mA	95.5%	UL/cUL
L4HCP1200S2840ST	305~660Vac	1200W	32-48V	28400mA	28400mA	95.5%	UL/cUL
L4HCP1200S2220ST	305~660Vac	1200W	36-54V	22200mA	22200mA	96%	UL/cUL
L4HCP1200S2040ST	305~660Vac	1200W	40-58.8V	20400mA	20400mA	96%	UL/cUL

■ Technical Data

Input voltage range	306-660Vac
Frequency	47-63Hz
Power factor	> 0.95 @480Vac & 80~100% full load, > 0.90 @600Vac & 80~100% full load
Output voltage	24-58.8V
Output power	1200W
Max. Voltage ripple	250mVp-p

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■ **Technical Data(cont.)**

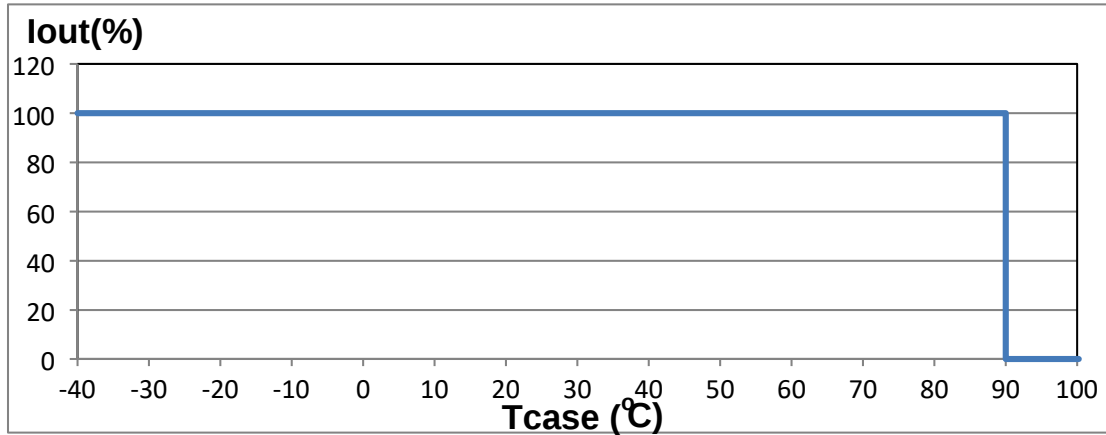
Max. Current ripple	±5%
Max input current	6.5A
Max input Power	1360W
Efficiency	95.5%-96%
Output AUX Power Voltage (optional)	12V
Output AUX Power Current (optional)	0-100mA
Max. open circuit voltage	39V, 51V, 61.8V, 61.8V
THD	<20% @ 480Vac & 80~100% full load, <20% @ 600Vac & 80~100% full load
Protection	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	321x123x88 mm (12.6x4.84x3.5inch)
Mounting Length	352 mm (13.85inch)
Overall Length	368 mm (14.5 inch)
Weight	7.5 kg (16.6 lb)
Lifetime	>70,000 hours @ full load, 75°C Tcase

■ **Safety Compliance**

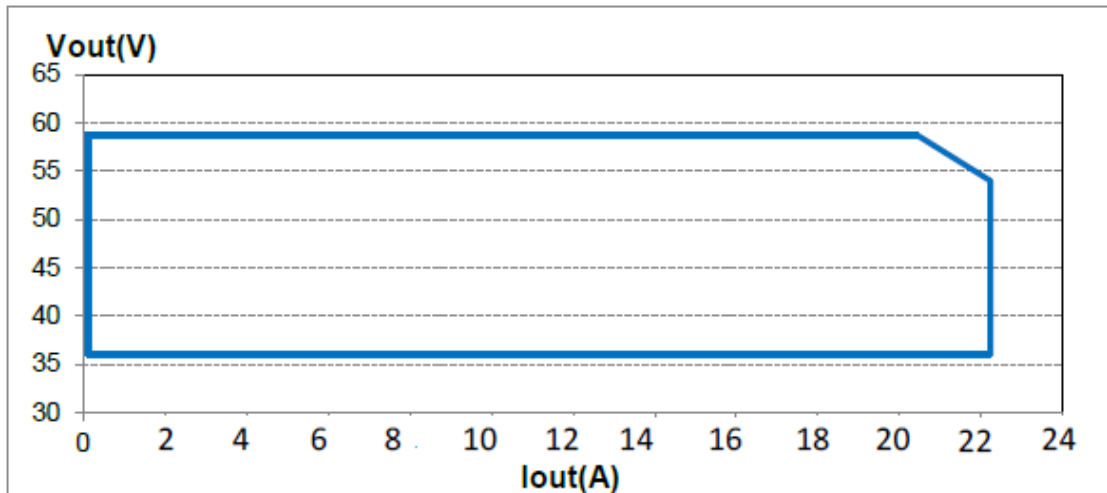
Safeties	UL8750
Electromagnetic Compliance	Per Title 47 CFR Part 15 Class A

■ **Electrical Specifications***(L4HCP1200S2220ST @25°C)

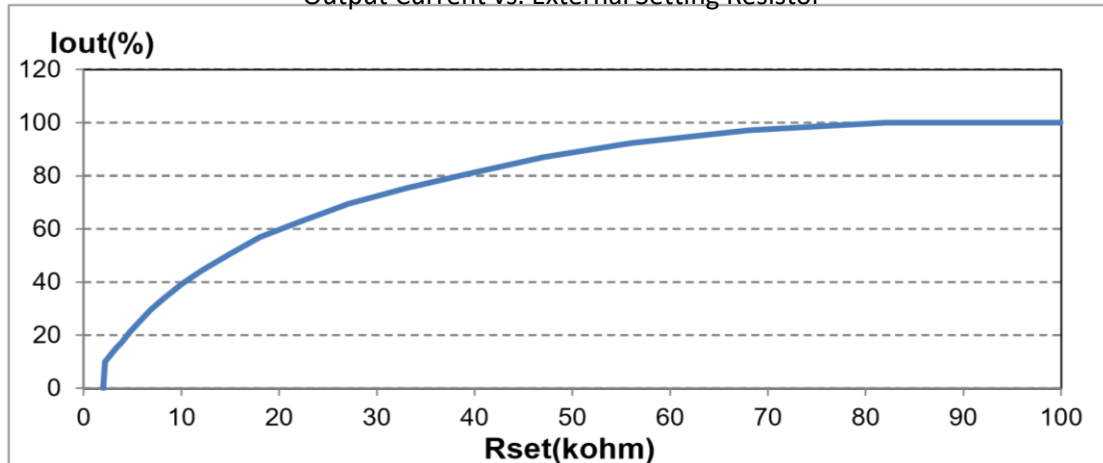
Output Current vs. Case Temperature (with $\pm 5^\circ\text{C}$ Tolerance)



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

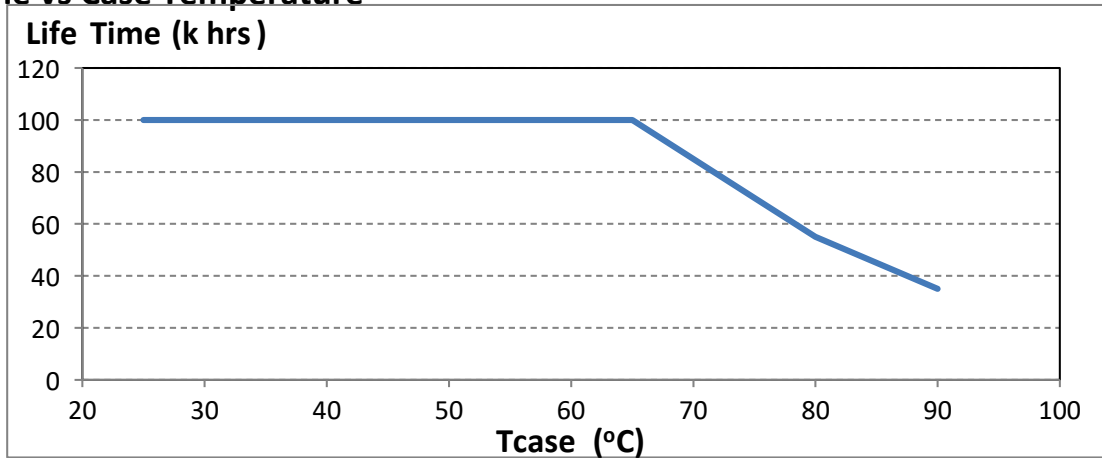


Output Current vs. External Setting Resistor

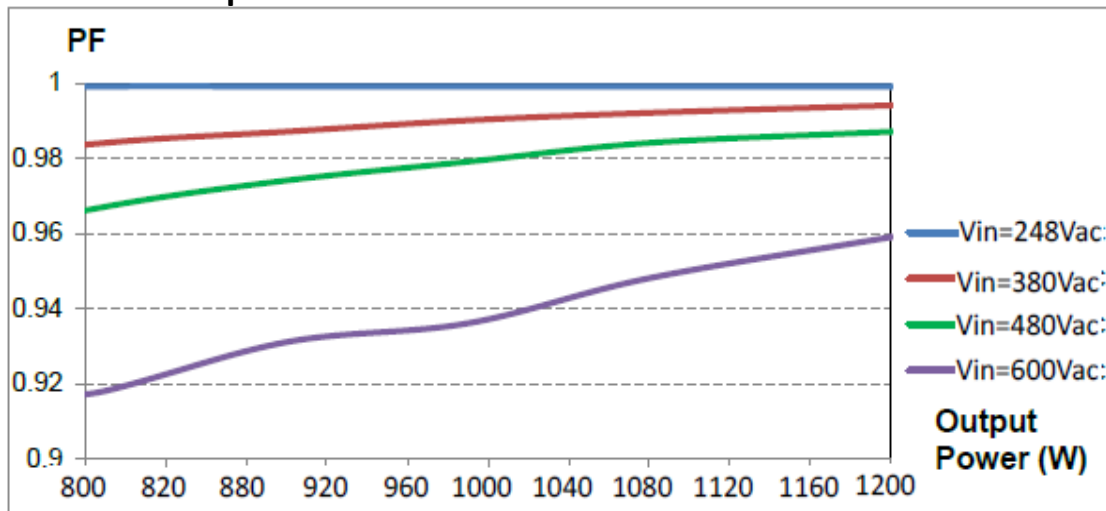


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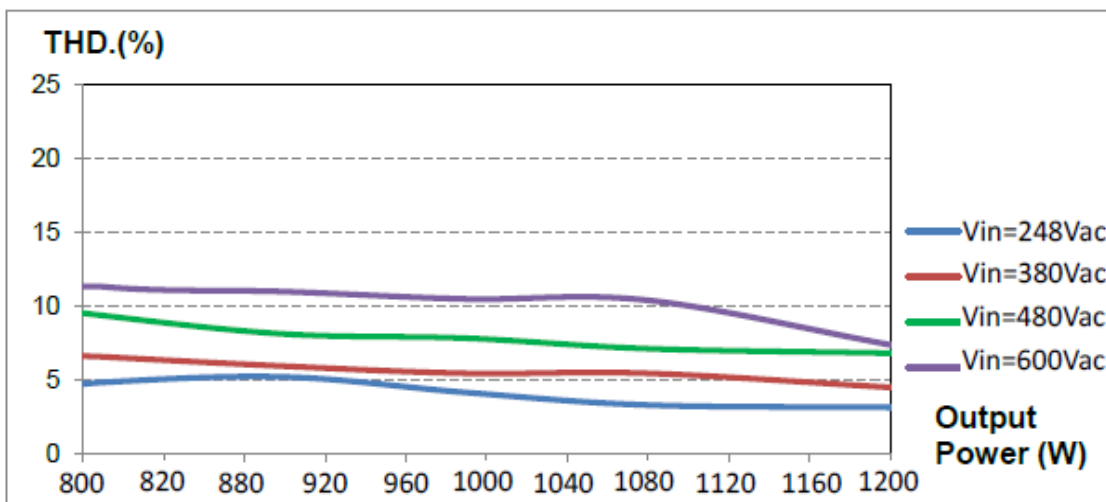
■ **Lifetime vs Case Temperature**



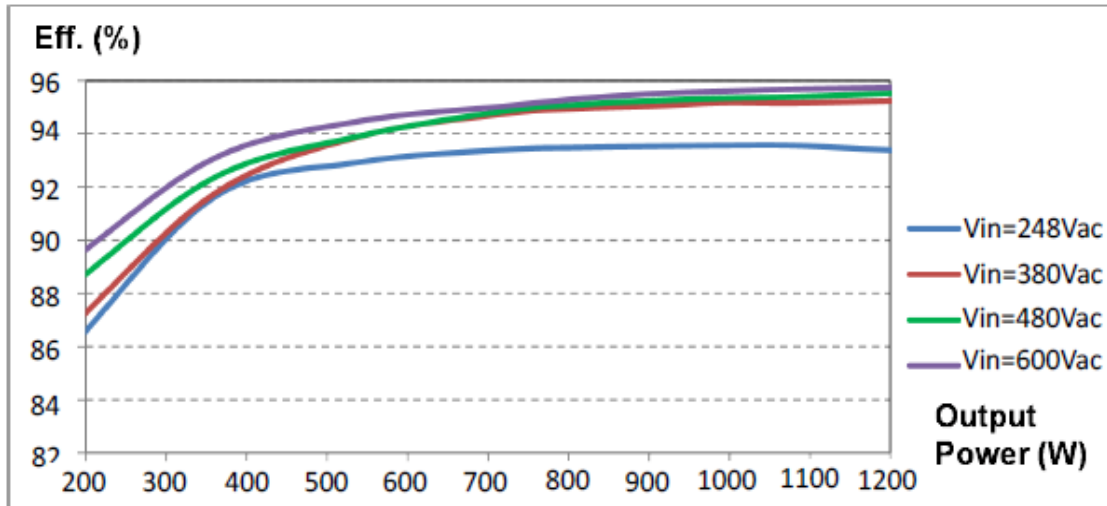
■ **Power Factor vs. Output Power**



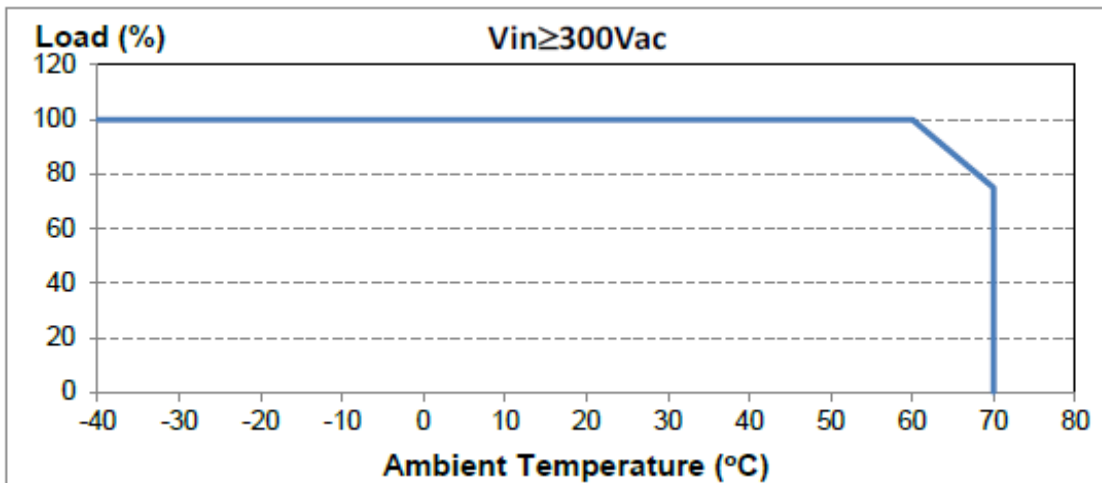
■ **THD vs. Output Power**



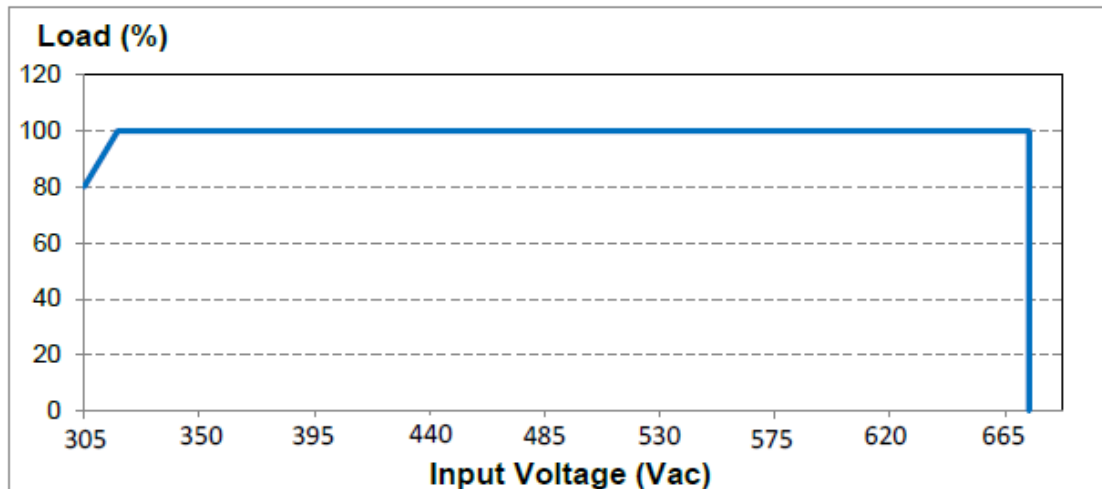
■ Efficiency vs. Output Power



■ Derating Curve

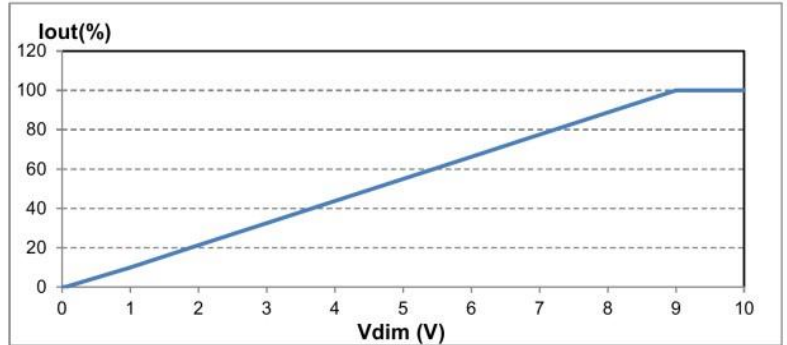
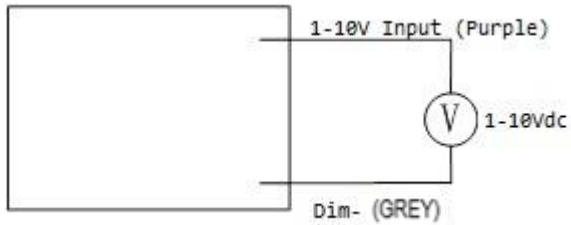


■ Static Characteristics

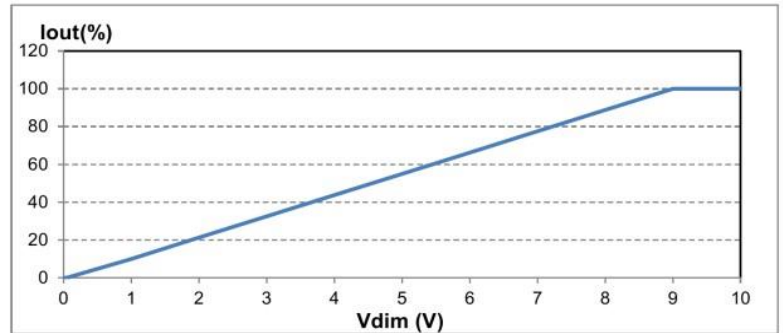


■ **Dimming**

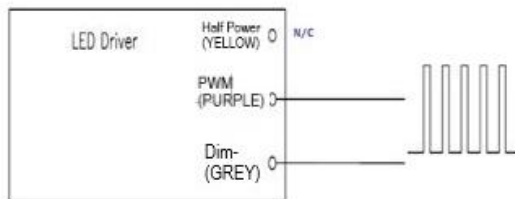
Mode 1 : 1-10Vdc Input on Dimming Control



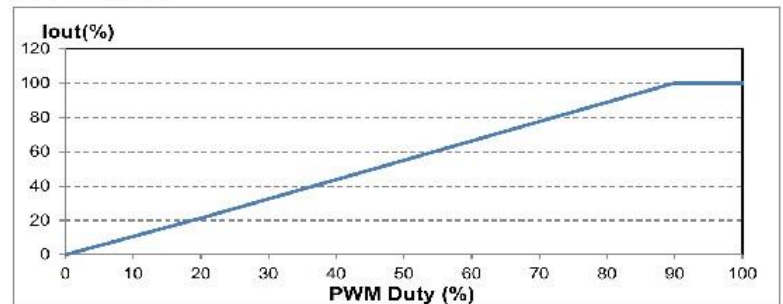
Mode 2 : Potentiometer on Dimming Control



Mode 3 : PWM Signal on Dimming Wires



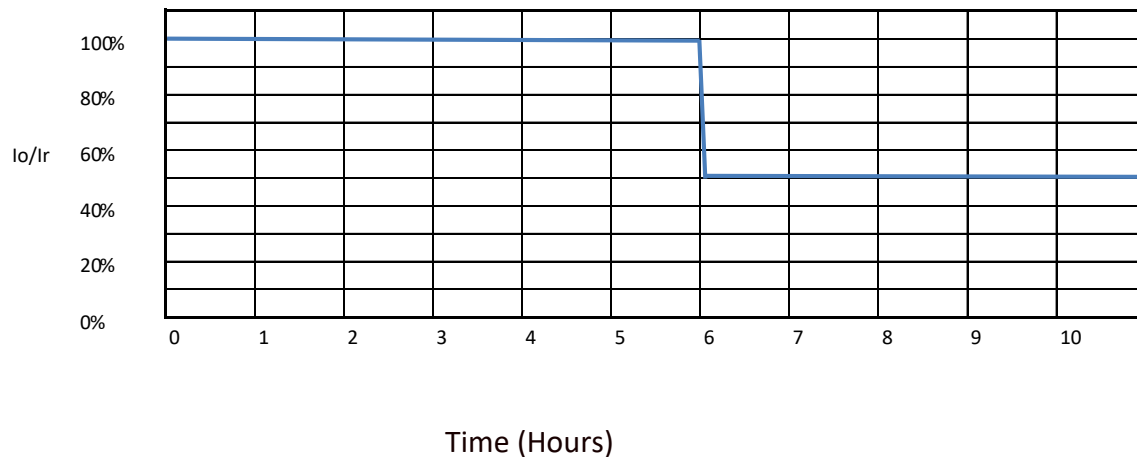
I_{out}/I_r vs PWM Duty



■ **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)

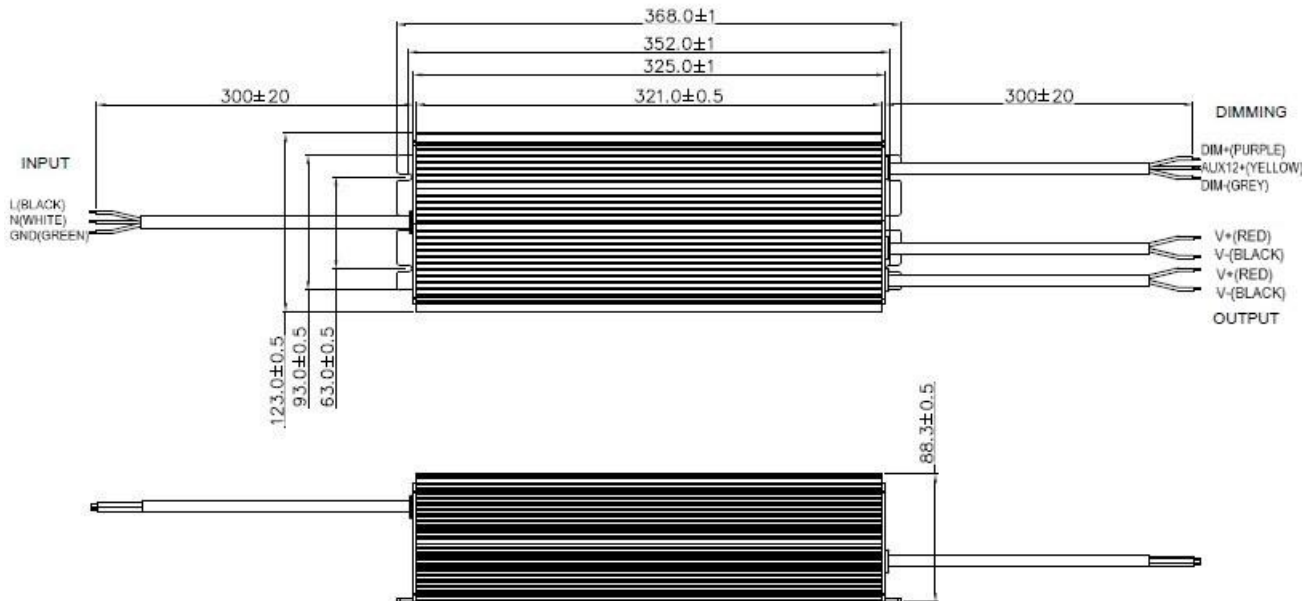


Standard power/time combination above, can be factory set to customer specification. Recycle AC to restart timer.

NOTE:

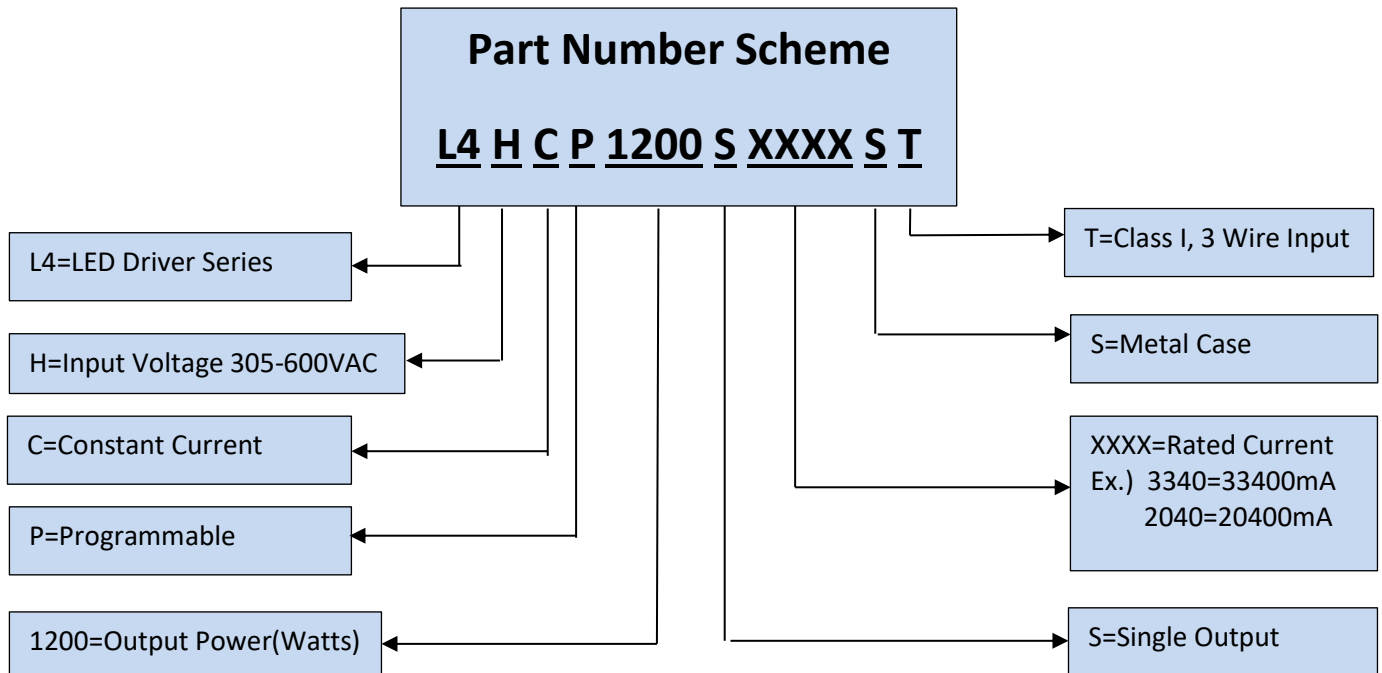
1. If the dimming function is not used, cap the dimming wires and don't use them.
2. I_o is actual output current and I_r is rated current without dimming control.
3. For the driver to operate properly, the load voltage must be maintained above the minimum voltage threshold, approximately 50% of the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

■ **Mechanical Diagram**



- Notes: 1. Outline Dimension: 321L*123W*88H
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.**