

## ■ Features

- Power Rating: 250W
- Input Voltage: 277-480Vac
- Constant current and constant voltage hybrid design
- Adjustable Output current (430mA-10420mA)
- Efficiency to 94%
- 0-10V dimming/PWM/Timer Dimming, Dim-to-off
- Programmable with Near Field Communication technology without power to the driver
- 12V 200mA Aux power
- UL Class "P", and UL Class 2 outputs/Type HL
- OVP, SCP, OTP, & Over Current Protection
- Tc=90°C
- IP67
- 5-year warranty
- Surge Protection: Diff: 6kV, Common: 10kV



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

## ■ Application

- Indoor and Outdoor applications

## ■ Model List\*(See part number scheme for model number details)

Model Number	Input Voltage Range	Output Power	Output Voltage	Programmable Output Current Region	Efficiency 277V	Certification
L2HCP250S1042ST-XYZ	277-480Vac	250W	24-36V	4.17-10.42A	93%	UL/cUL
L2HCP250S694ST-XYZ	277-480Vac	250W	36-54V	2.78-6.94A	93%	UL/cUL
L2HCP250S521ST-XYZ	277-480Vac	250W	48-80V	2.08-5.21A	93%	UL/cUL
L2HCP250S313ST-XYZ	277-480Vac	250W	80-140V	1.25-3.13A	93%	UL/cUL
L2HCP250S179ST-XYZ	277-480Vac	250W	140-233V	0.71-1.79A	94%	UL/cUL
L2HCP250S107ST-XYZ	277-480Vac	250W	233-375V	0.43-1.07A	94%	UL/cUL

Ordering options	
XY= Programmable	Z=Dimming
FC=Near Field Communication	D=DALI Dimming
	B=BLE Dimming

## ■ Technical Data

Input voltage range	277-480Vac
Frequency	47-63Hz
Power factor	0.95
Output voltage	24-375V

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■ **Technical Data(cont.)**

Output power	250W
Max input current	0.8A @347Vac
Efficiency	93-94%
Line Regulation	±0.3%
Load Regulation	±1%
Inrush Current	65A @230Vac cold start +25°C
Dimming	0~10V,PWM,Timer Dim-to-off option
THD	< 20%
Current Programmable	Yes
Output Current Adjustable Range	430-10420mA
Over Current Protection	95-108% Protection type: Constant current limiting, recovers automatically after fault condition is removed
Short Current Protection	Hiccup mode, recovers automatically after fault condition is removed
Over Voltage Protection	1.3Vo, Protection type: Hiccup mode, recovers automatically after fault condition is removed
Over Temp. Protection	Hiccup mode, recovers automatically after fault condition is removed
Operating Temperature	-35°C ~+60°C
Max T-case Temp.	90°C
Operating Humidity	10~100% RH non-condensing
Storage Temp., Humidity	-40 ~+85°C, 5 ~ 100% RH
Vibration	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
Dimensions	232x84.1x39mm
Packing	1.6kg
Weight	12pcs/carton

■ **Safety Compliance**

Safety Standards	UL8750, UL935, UL1012, CSA-C22.2 No.107.1, EN61347-1, EN61347-2-13
Withstand Voltage	I/P – O/P: 3.75kVAC
Isolation Resistance	I/P – O/P: 100M Ohms / 500VDC /25°C / 70% RH
EMC Emission	Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3
EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024

**Disclaimer:**

Autec Power Systems' (Autec) LED Drivers are Hi-Pot tested during the manufacturing process. Autec assumes no responsibility for secondary Hi-Pot testing at customer location or designated production line(s). Should customer require further Hi-Pot testing, at their own production line, following assembly of the LED Driver into the customer's assembled fixture, Autec requests advance notice. This request must be communicated to Autec in a timely manner and is recommended to be requested at time of issuing each purchase order.

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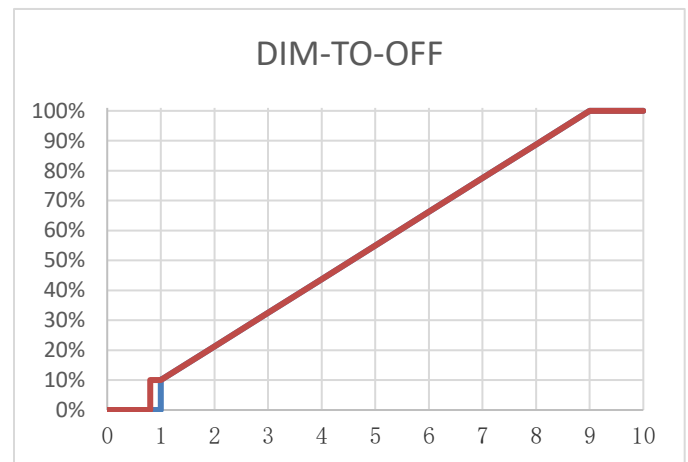
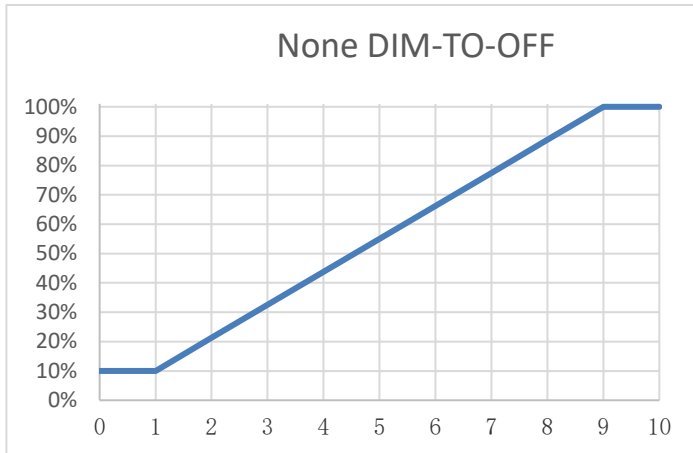
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## ■ Dimming

### 0-10V Analog Dimming



GND	Grey
Dimming wire 0-10V & PWM	Purple
12V AUX	Yellow
Input Dimming Voltage	0-10V
DIM+ Source Current	0.5mA
12V AUX Source Current	200mA
PWM Frequency Range	0.5-3KHZ
PWM high level	10V

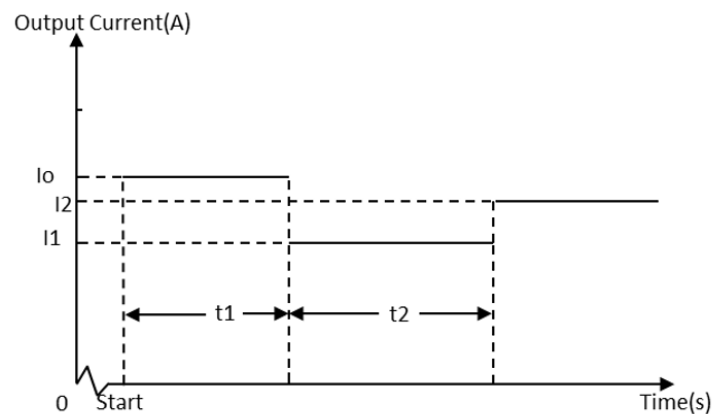
#### NOTE:

1.  $I_o$  is actual output current and  $I_r$  is rated current without dimming control.
2. For the driver to operate properly, the load voltage must be in the working voltage range.
3. We have DIM-TO-OFF option, which can be programmed by the programmer.
4. Maximum input voltage for the dimming wire is 12V.
5. AUX wire is only for source, can't connect to other voltage source.

## ■ TIMER Dimming

#### NOTE:

1. The dimming time can be programmed by the programmer.
2. The time of  $t_1$  and  $t_2$  can be set by the programmer.(0.5h step)
3. The value of  $I_1$  and  $I_2$  can be set by the programmer.
4. Changing the current from  $I_1$  to  $I_2$  may take a few min.



## ■ Near Field Communication Controller



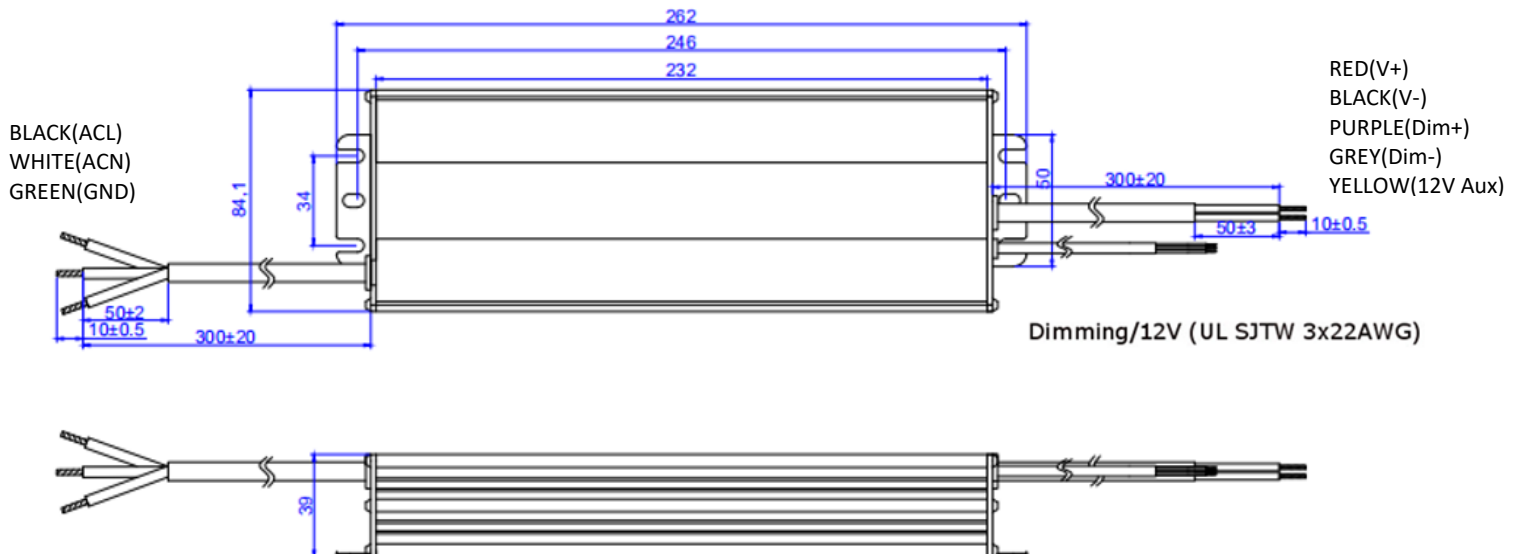
### NOTE:

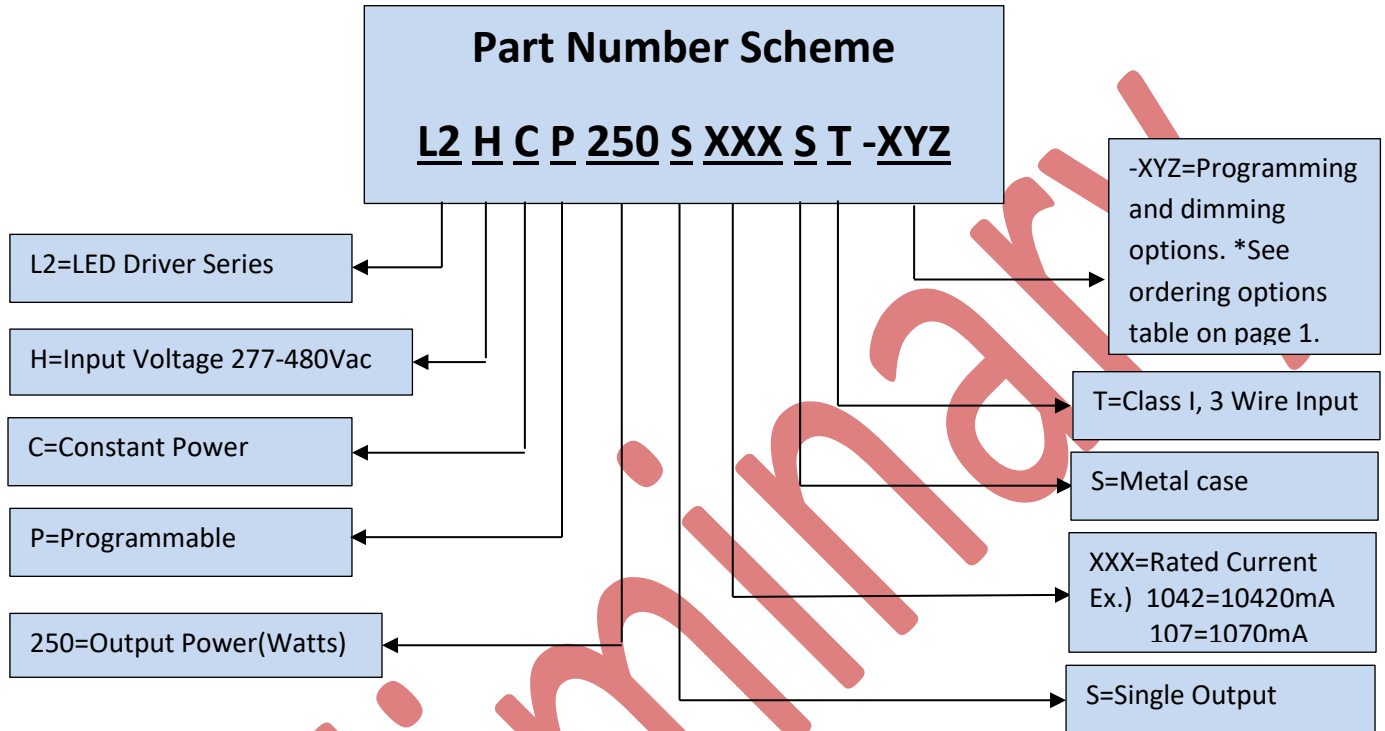
1. The Near Field Communication controller can program the output current, voltage and timer delays.
2. The Near Field Communication programming is a non-contact process, therefore much safer compared to traditional programming methods.
3. Power devices can be programmed without AC power applied to the driver.

## ■ Mechanical Design

AC Input (UL STW 3x18AWG)

DC Output (UL SJTW 2x14AWG)





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