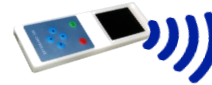


### ■ Features

- Power Rating: 600W
- Input Voltage: 277-480Vac
- Constant current and constant voltage hybrid output
- Output current (400mA-14200mA)
- Output current programmable with Near Field Communication controller
- Efficiency to 95%
- Compatible with 0-10V, PWM, Timer, Dim-to-off option, 12V/400mA AUX
- UL/Class P, Type HL
- Lightning, OVP, SCP, OTP, & Over Current Protection
- Tc = 90°C
- IP67
- 5-year warranty
- Surge Protection: Diff: 6kV, Common: 10kV



\*Near Field Communication controller

**RoHS**   
Compliant



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

### ■ Application

- Horticultural grow applications
- Indoor and outdoor applications

### ■ 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
L2HCP600S1420ST-XYZ	277-480Vac	600W	25-48V	5700mA	14200mA	95%	UL/cUL
L2HCP600S1250ST-XYZ	277-480Vac	600W	28-56V	5000mA	12500mA	95%	UL/cUL
L2HCP600S937ST-XYZ	277-480Vac	600W	38-80V	3750mA	9370mA	95%	UL/cUL
L2HCP600S536ST-XYZ	277-480Vac	600W	67-140V	2140mA	5360mA	95%	UL/cUL
L2HCP600S428ST-XYZ	277-480Vac	600W	84-180V	1710mA	4280mA	95%	UL/cUL
L2HCP600S313ST-XYZ	277-480Vac	600W	115-240V	1250mA	3130mA	95%	UL/cUL
L2HCP600S250ST-XYZ	277-480Vac	600W	144-300V	1000mA	2500mA	95%	UL/cUL
L2HCP600S200ST-XYZ	277-480Vac	600W	180-375V	800mA	2000mA	95%	UL/cUL
L2HCP600S160ST-XYZ	277-480Vac	600W	225-460V	400mA	1600mA	95%	UL/cUL

Ordering options	
XY= Programmable	Z=Dimming
FC=Near Field Communication	D=DALI Dimming
	B=BLE Dimming
-THR=External Thermal Protection NTC Option	

■ **Technical Data**

Input voltage range	277-480Vac
Frequency	47-63Hz
Power factor	0.95
Output voltage	18-460V
Output power	600W
Max input current	1.9A @347Vac
Max input Power	600W
Efficiency	95%
Line Regulation	± 1%
Load Regulation	± 1%
Inrush Current	65A peak, 1.2ms duration@277Vac , <0.25A2s 70A peak, 1.3ms duration@480Vac , <0.5A2s
Dimming	0~10V/ PWM/ Timer, Dim-to-off option
THD	< 20%
Current Programmable	Yes
Over Current Protection	95-100% Protection type: Constant current limiting, recovers automatically after fault condition is removed
Short Circuit Protection	Hiccup mode, recovers automatically after fault condition is removed
Over Voltage Protection	1.05Vo, 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~+50°C @480Vac without any extra heatsink, add heatsink to get a higher Ta
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
MTBF	> 200kHrs to MIL-HDBK-217 at25°C, GB
Dimensions	276x90.1x47.9mm
Dimensions with tabs	306x90.1x47.9mm
Packing	4pcs/carton
Weight	1.9kg

■ **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

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May 22, 2020

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**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.

■ **Near Field Communication Controller**

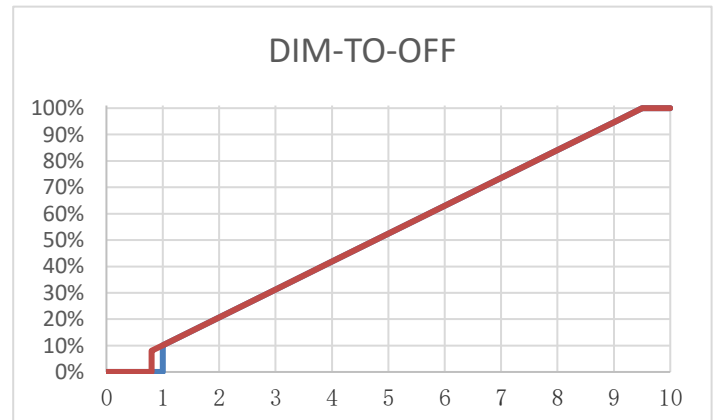
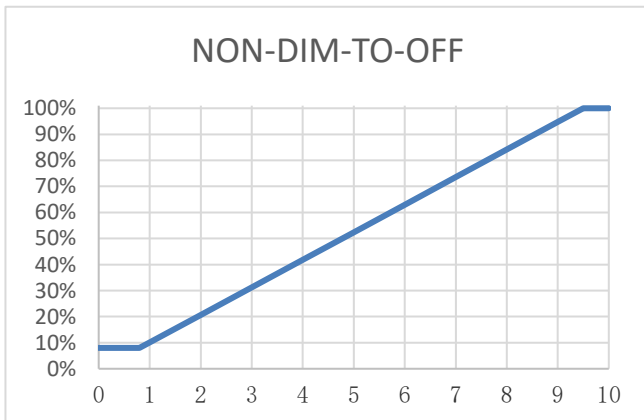


**NOTE:**

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.

■ **Dimming**

**0-10V Analog Dimming & PWM Dimming**



GND	Grey
Dimming wire 0-10V&PWM	Purple
12V AUX	Yellow
Input Dimming Voltage	0-10V
DIM+ Source Current	0.5mA
PWM Frequency Range	0.4-10KHZ
PWM high level	>2.3V
PWM low level	<0.8V
12V Aux output voltage	10-15V
12V AUX Source Current	400mA

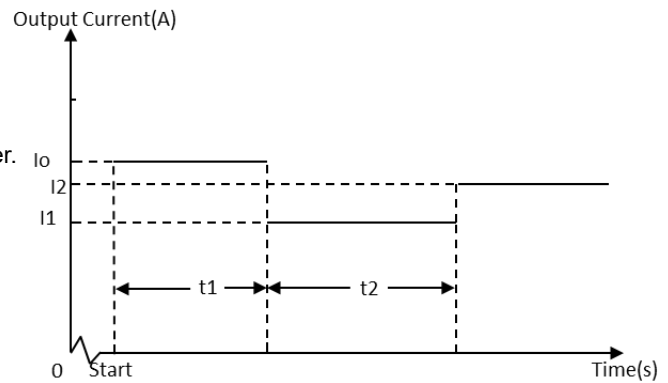
**NOTE:**

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.
6. 400mA/12V AUX are available output options, see Ordering Options on page 1.

■ **TIMER Dimming**

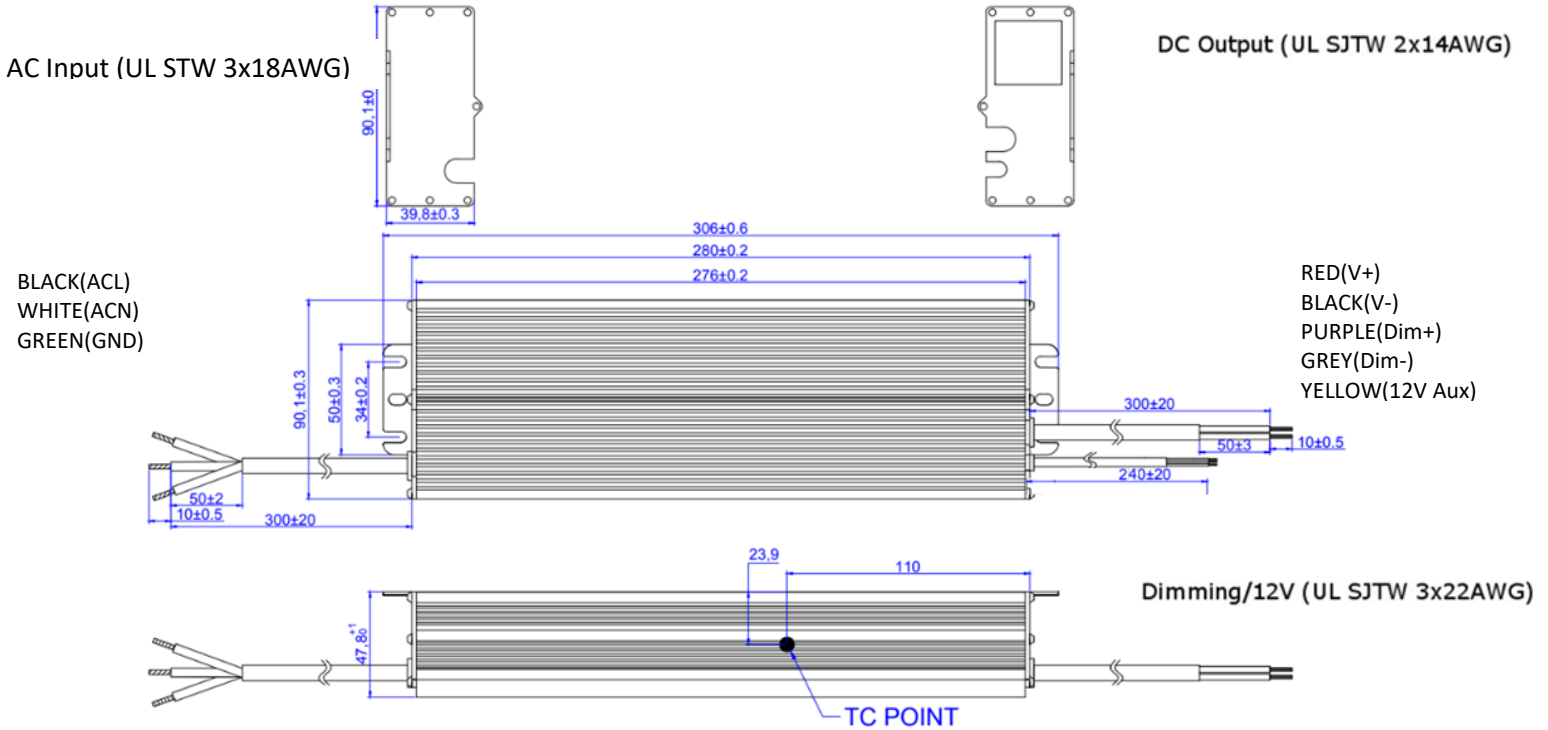
**NOTE:**

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.

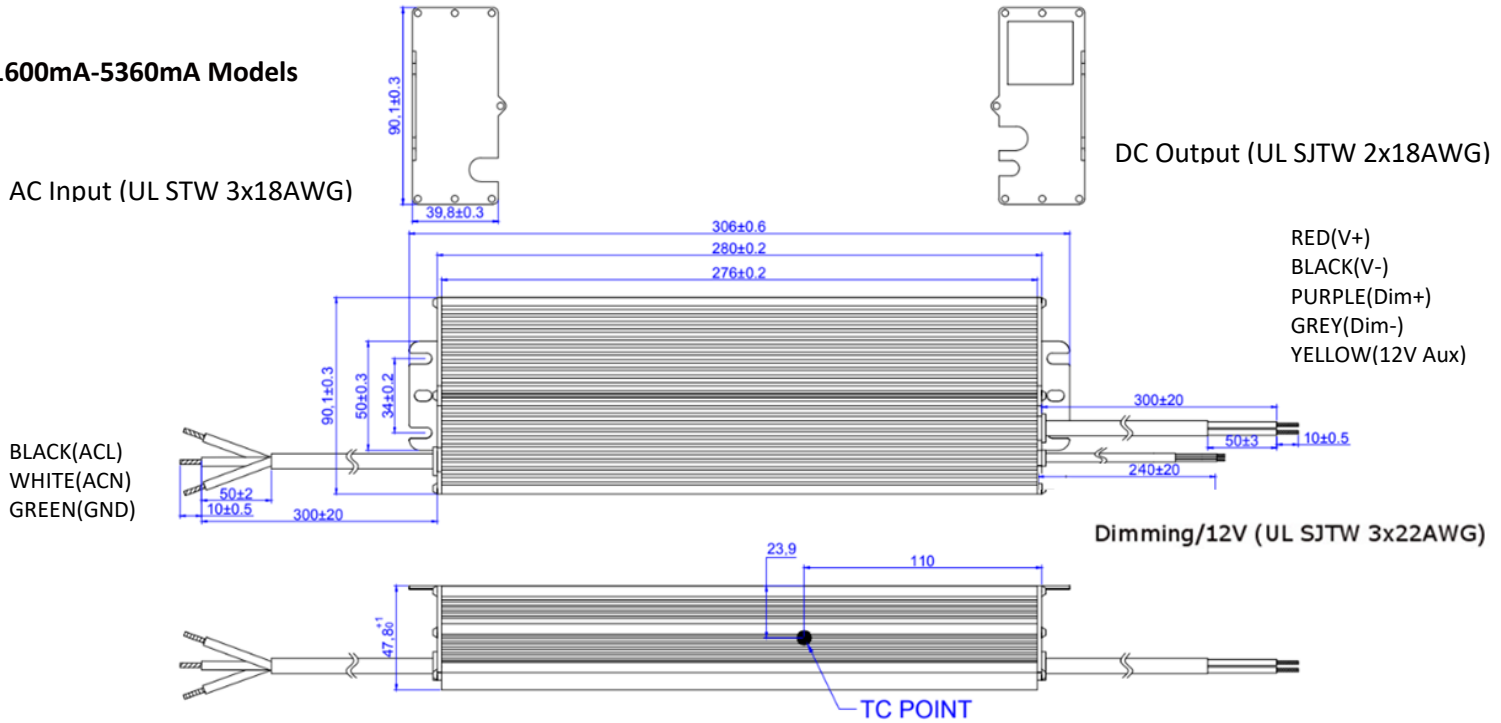


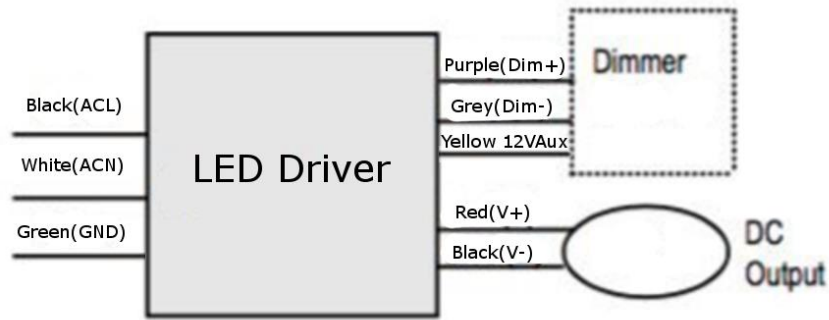
■ **Mechanical Design**

**9370mA-142000mA Models**

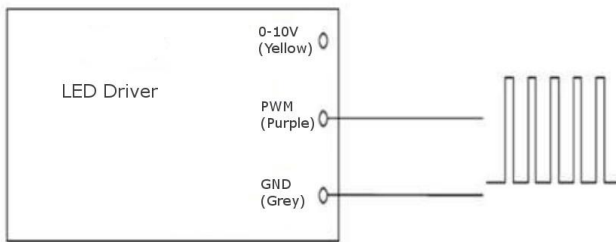


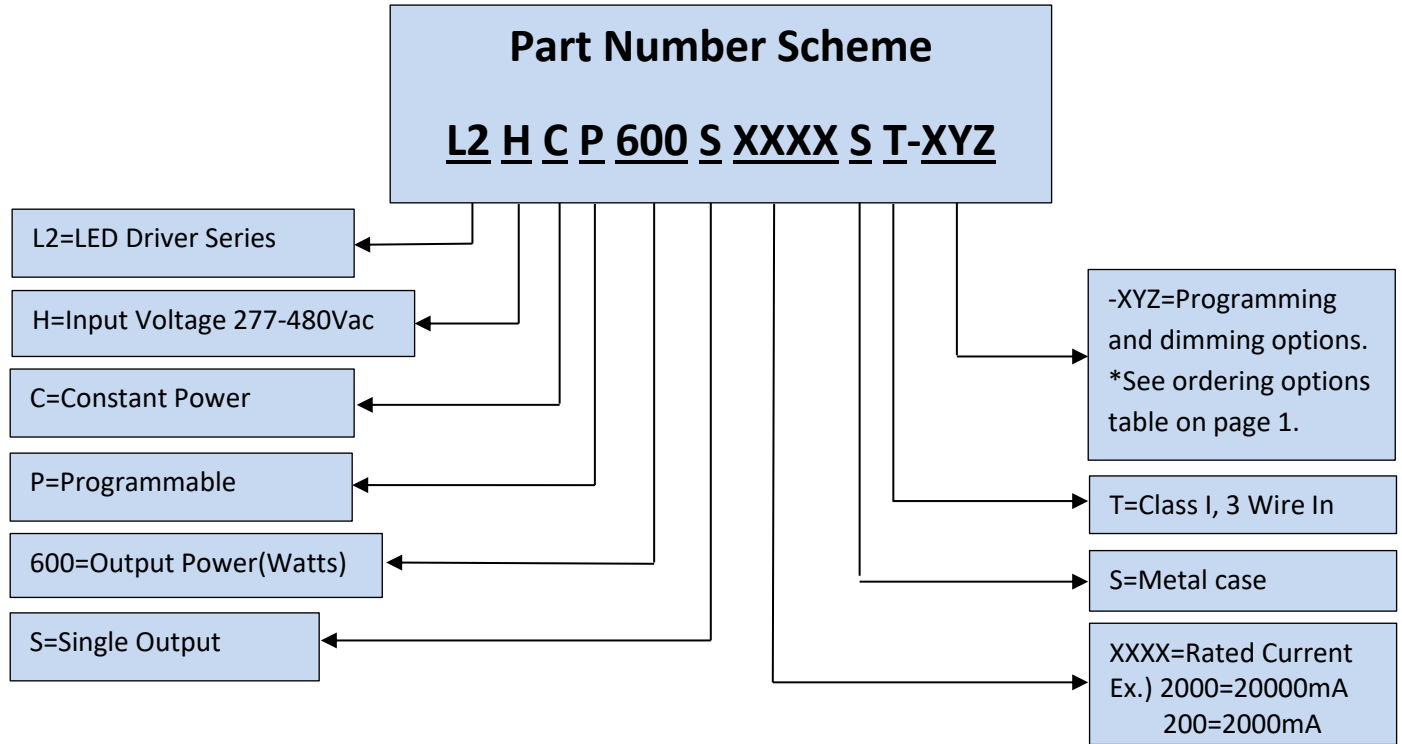
**1600mA-5360mA Models**





■ PWM Dimming Graph





\*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.

Rev	Change data	Change description			
		Item	From	To	Note
D1.1M	4/16/2020	Dimension Height	47.2mm	57.3mm	