

■ Features

- Power Rating: 400W
- Input Voltage: 120-277Vac
- Constant current and constant voltage hybrid output
- Output current (430mA-13330mA)
- Output current programmable with Near Field Communication controller
- Efficiency to 94%
- Compatible with 0-10V, PWM, Timer, Dim-to-off option, Isolated Dimming, 12V/200mA AUX
- UL/Class P, Type HL
- OCP, SCP, OVP, and OTP
- IP67
- 5-year warranty
- Surge Protection: Diff: 6kV, Common: 10kV



RoHS Compliant



*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	Output Current Min.	Output Current Max.	Efficiency 277Vac	Certification
L2WCP400S1333ST-XYZ	120-277Vac	400W	18-36V	5330mA	13330mA	94%	UL/cUL
L2WCP400S952ST-XYZ	120-277Vac	400W	25-48V	3810mA	9520mA	94%	UL/cUL
L2WCP400S833ST-XYZ	120-277Vac	400W	28-56V	3330mA	8330mA	94%	UL/cUL
L2WCP400S625ST-XYZ	120-277Vac	400W	38-80V	2500mA	6250mA	94%	UL/cUL
L2WCP400S357ST-XYZ	120-277Vac	400W	67-140V	1430mA	3570mA	94%	UL/cUL
L2WCP400S286ST-XYZ	120-277Vac	400W	84-180V	1140mA	2860mA	94%	UL/cUL
L2WCP400S208ST-XYZ	120-277Vac	400W	115-240V	830mA	2080mA	94%	UL/cUL
L2WCP400S167ST-XYZ	120-277Vac	400W	144-300V	670mA	1670mA	94%	UL/cUL
L2WCP400S133ST-XYZ	120-277Vac	400W	180-375V	530mA	1330mA	94%	UL/cUL
L2WCP400S107ST-XYZ	120-277Vac	400W	225-460V	430mA	1070mA	94%	UL/cUL

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

■ **Technical Data**

Input voltage range	120-277Vac
Frequency	47-63Hz
Power factor	0.95
Output voltage	18-460V
Output power	400W
Max input current	1.53A @277Vac
Efficiency	94%
Line Regulation	± 1%
Load Regulation	± 1%
Inrush Current	65A @230Vac cold start +25°C
Dimming	0~10V/ PWM, Dim-to-off option
THD	< 20%
Current Programmable	Yes
Over Current Protection	1.05*Iomax; 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	1.05*Vomax, Protection type: Hiccup mode, recovers automatically after fault condition is removed
Over Temperature Protection	Hiccup mode, recovers automatically after fault condition is removed
Operating Temperature	-35°C to +50°C(@220Vac without any extra heat sink, add another heat sink to get a higher Ta
Max T-case Temp.	92°C
Operating Humidity	10 ~ 100% RH non-condensing
Storage Temp., Humidity	-40 ~+85°C, 5 ~ 100% RH
MTBF	>200kHrs to MIL-HDBK-217 @ 25°C
Vibration	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
Dimensions	246x84.1x47.9mm
Packing	6pcs/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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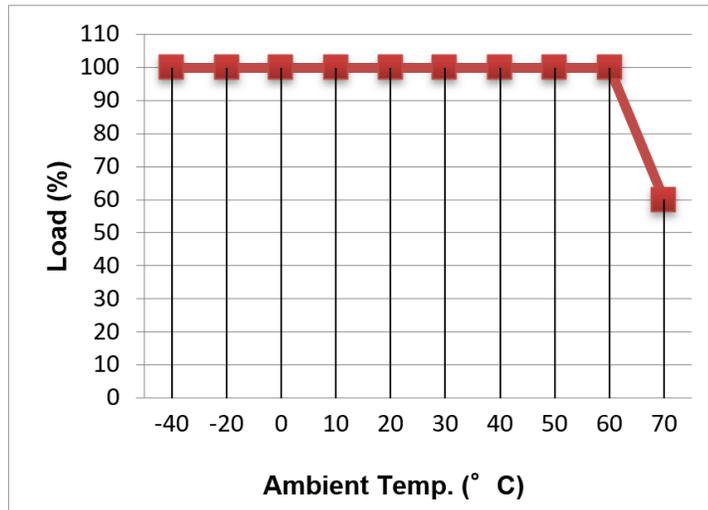
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October 17, 2019

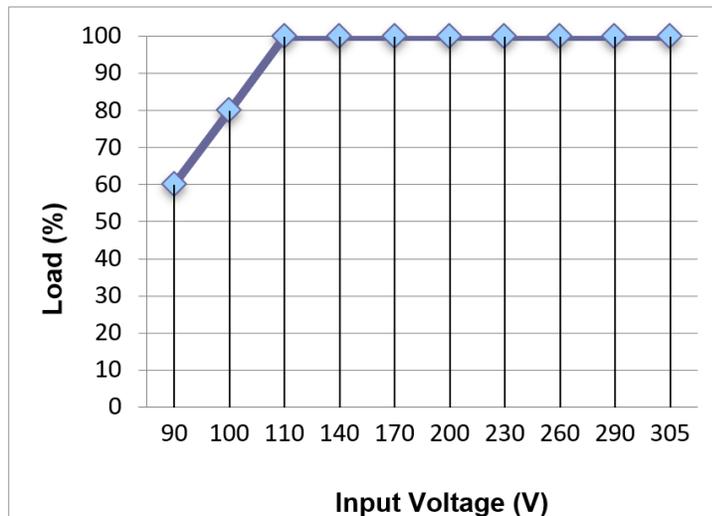
Disclaimer:

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.

■ **Derating curve**



■ **Static Characteristics**



Note: The Ta vs Load curve is tested @220Vac input and without any extra heatsink. The driver can work at higher Ta if extra heatsink was mounted, as long as the Tc is below Maximum Tc, it works fine.

■ **Near Field Communication Controller**

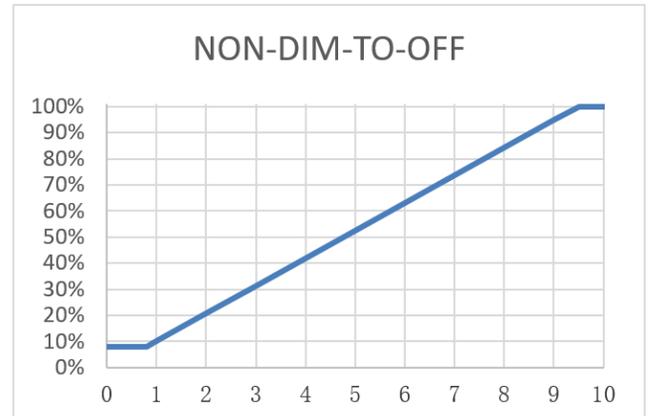
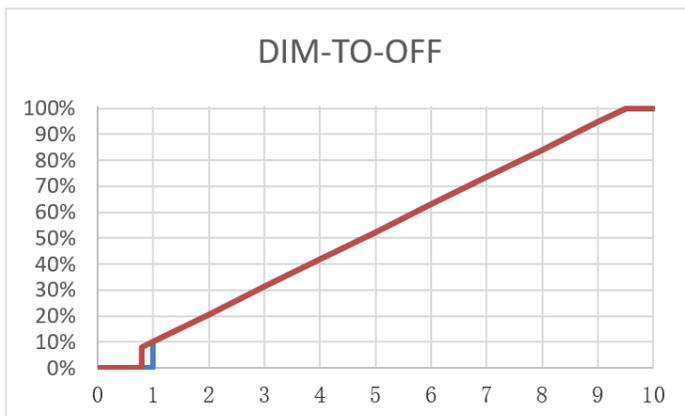


NOTE:

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

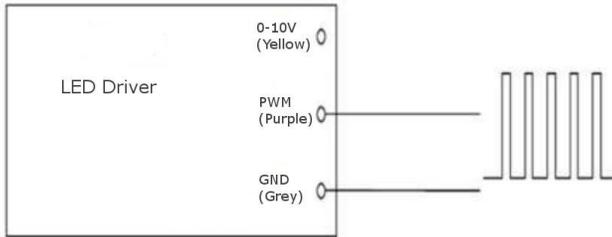


GND	Grey
Dimming wire 0-10V&PWM	Purple
12V AUX	Yellow
Input Dimming Voltage	0-10V
DIM+ Source Current	0.5mA
12V AUX Source Current	200mA
12V AUX output voltage	10-15V
PWM Frequency Range	0.4-10KHZ
PWM high level	>2.3V
PWM low level	<0.8V

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.

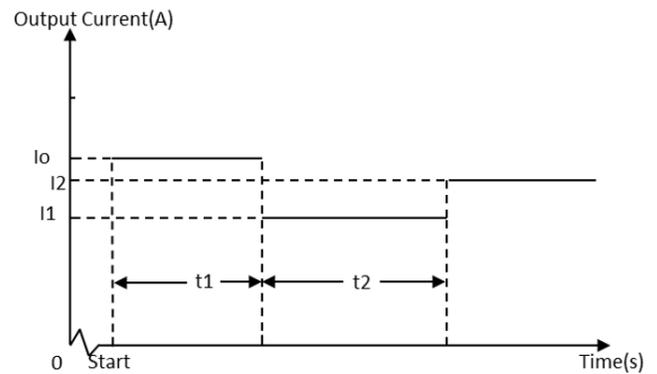
■ PWM Dimming



■ TIMER Dimming

NOTE:

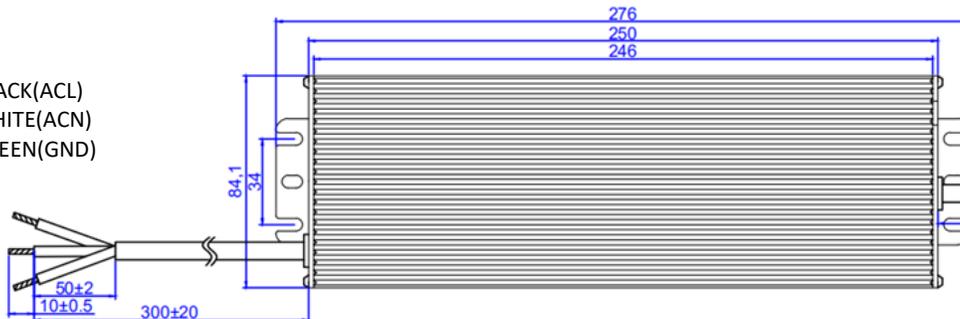
1. The dimming time can be programmed by the programmer.
2. The time of t1 and t2 can be set by the programmer.(0.5h step)
3. The value of I1 and I2 can be set by the programmer.
4. Changing the current from I1 to I2 may take a few min.



■ Mechanical Design

AC Input (UL SJTW 3x18AWG)

BLACK(ACL)
WHITE(ACN)
GREEN(GND)

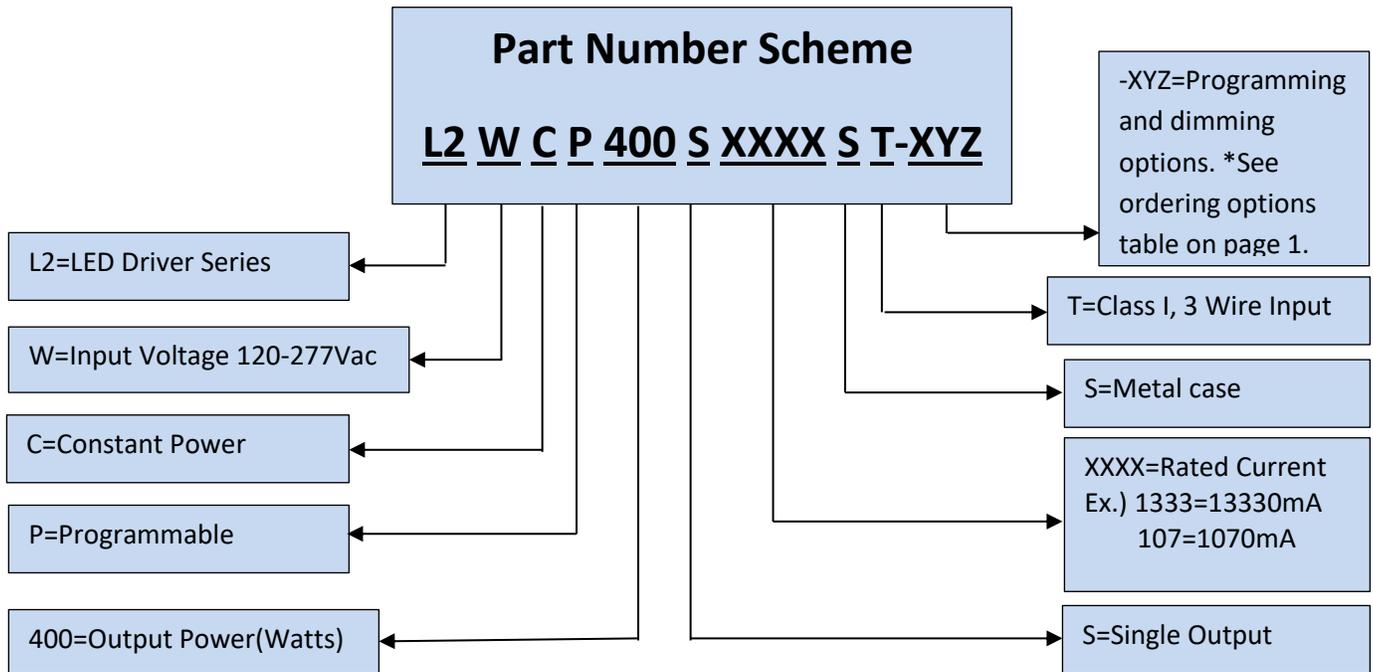


DC Output (UL SJTW 2x14AWG)

RED(V+)
BLACK(V-)
PURPLE(Dim+)
GREY(Dim-)
YELLOW(12V Aux)

Dimming/12V (UL SJTW 3x22AWG)





***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.**