

■ Features

- Power Rating: 40W
- Input Voltage: 100-277Vac
- Constant current design
- Output current (240mA-1670mA)
- Output current programmable with Near Field Communication controller
- Efficiency up to 89%
- 0-10V, PWM, Timer dimming options.
- Dim-to-off(optional)
- 12V/20mA AUX
- UL recognized, Type HL, Type TL
- Lightning, OVP, SCP, OTP, & Over Current Protection
- IP66
- 5-year warranty
- Surge Protection: Diff: 4kV, Common: 6kV


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 110Vac/220Vac	Certification
L2WCP040S167PS-WWXYZ	100-277Vac	40W	24-40V	670mA	1670mA	85%/87%	UL/cUL
L2WCP040S100PS-WWXYZ	100-277Vac	40W	40-68V	400mA	1000mA	88%/89%	UL/cUL
L2WCP040S059PS-WWXYZ	100-277Vac	40W	68-114V	240mA	590mA	89%/89%	UL/cUL

*Contact the factory to enable Dim-to-off feature

Ordering options		
WW=Case Shape	XY= Programmable	Z=Dimming
PU=Puck Case	FC=Near Field Communication	D=DALI Dimming
RE=Rectangular Case		B=BLE Dimming
SQ=Square 2 Gang Case		

■ Technical Data

Input voltage range	100-277Vac
Frequency	50/60Hz
Power factor	> 0.99 @115Vac, > 0.95 @230Vac
Output voltage	24-114V
Output power	40W

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■ **Technical Data(cont.)**

Ripple and Noise	2.0%Vo
Max input current	0.6A@115Vac; 0.3A@230Vac
Max Power	40W
Efficiency	85-89%
Line Regulation	± 5%
Load Regulation	± 3%
Inrush Current	65A @ 230Vac cold start +25°C
Dimming	0~10V/ PWM/ Timer, Dim-to-off Dimming Options
THD	< 20%
Current Programmable	Yes
Output Current Programmable Range	240-1670mA
Over Current Protection	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~+70°C
Max T-case Temp.	89°C
Operating Humidity	10 ~ 100% RH non-condensing
Storage Temp., Humidity	-40 ~ +85°C, 5 ~ 100% RH
Temp. Coefficient	± 0.05%/°C (0~50°C)
MTBF	200,000 Hours @25°C
Vibration	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axis
Dimensions	Rectangle Cas112x39x30mm; Puck Case: 58x67x32 mm
Packing	25pcs/carton
Weight	292.0g

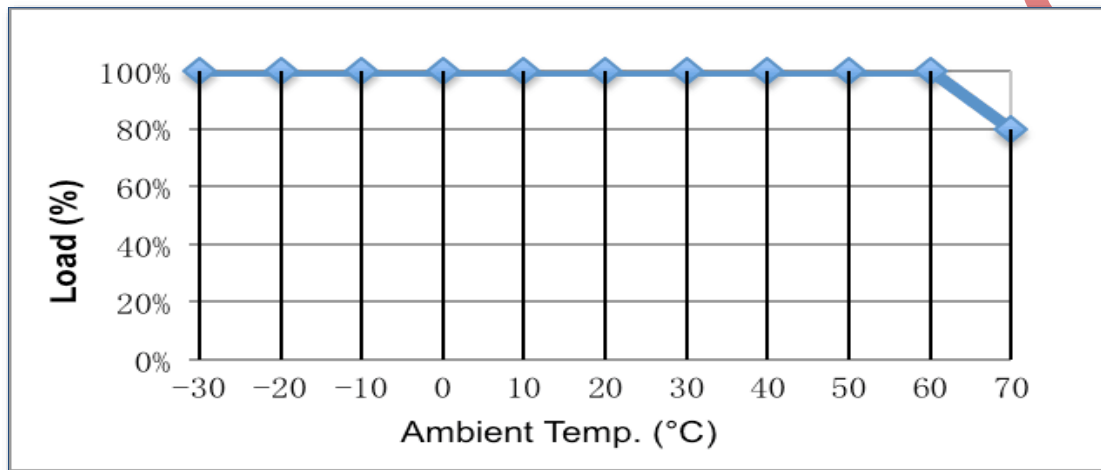
■ **Safety Compliance**

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

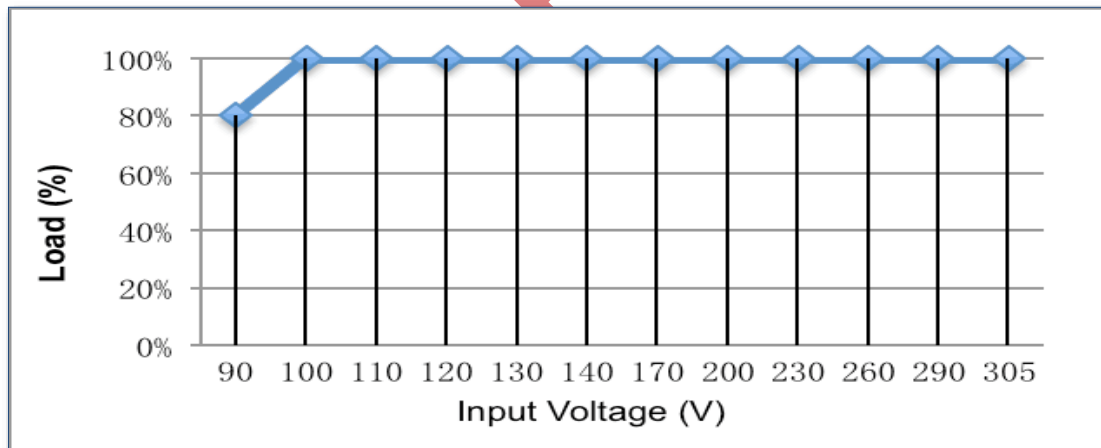
Disclaimer:

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.

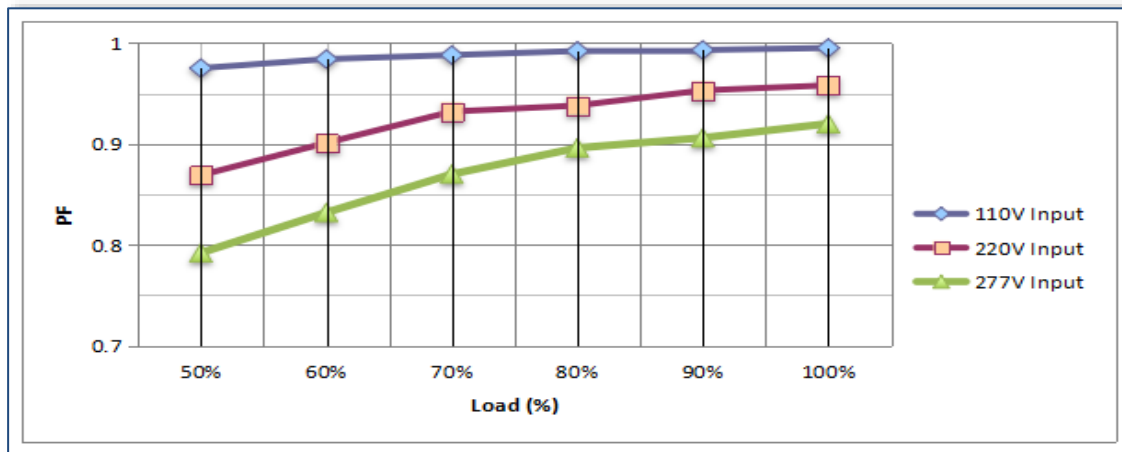
■ **Derating curve**



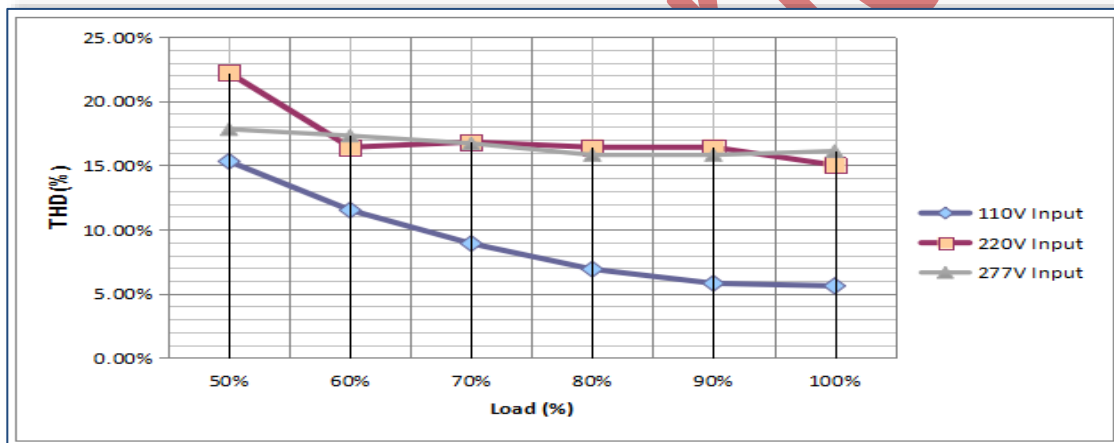
■ **Static Characteristics**



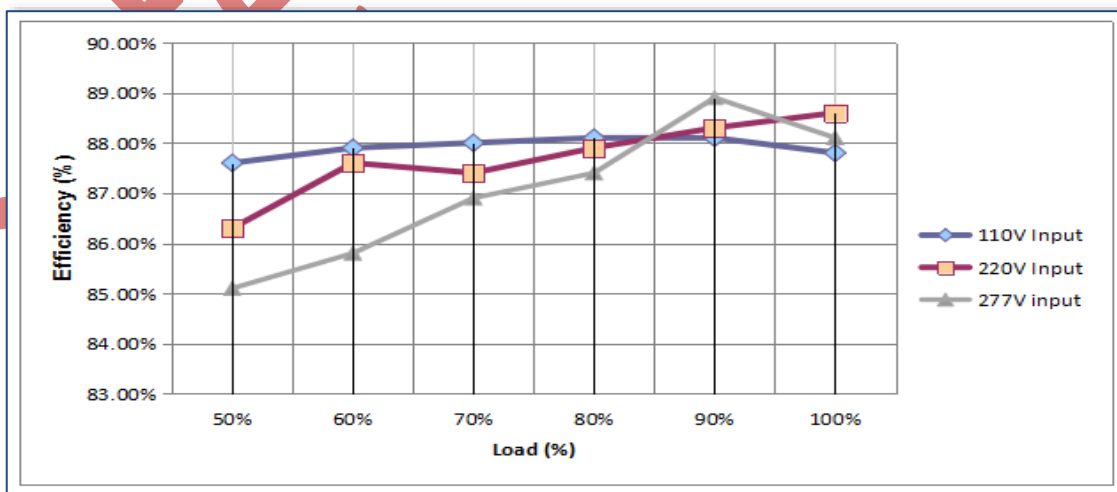
■ Power Factor vs. Output



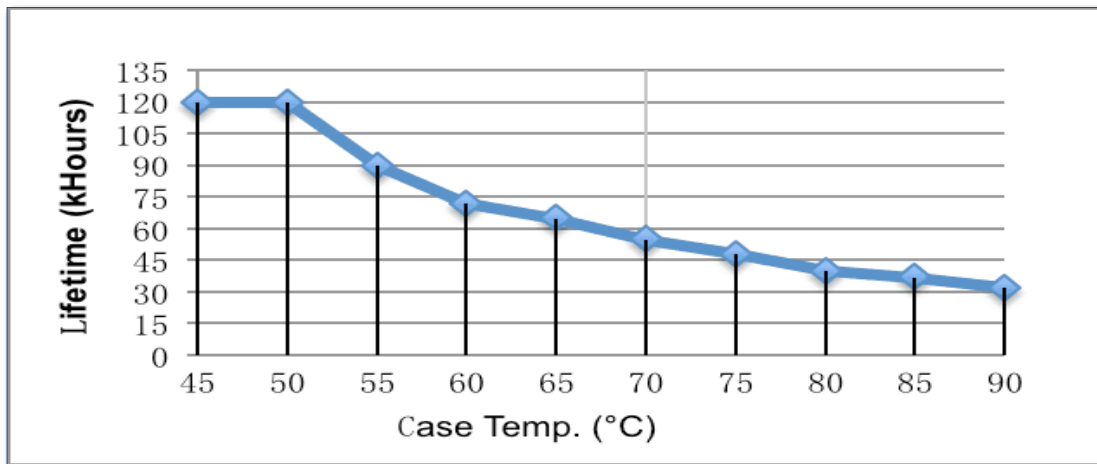
■ THD vs. Output



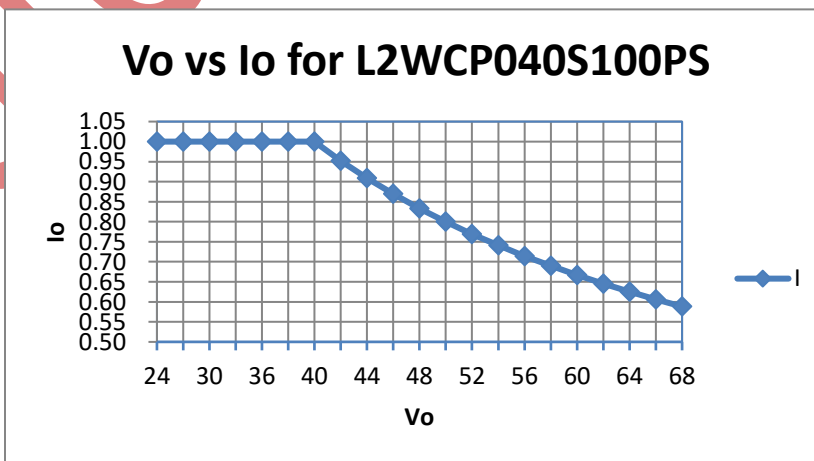
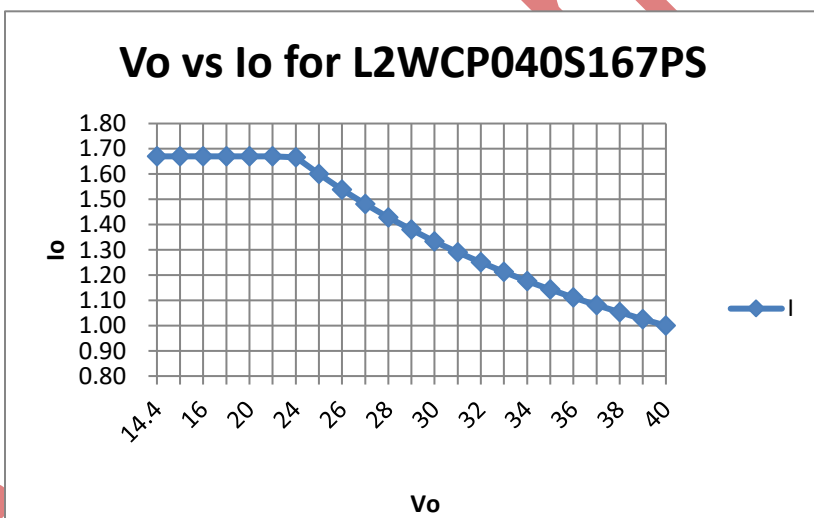
■ Efficiency vs Output

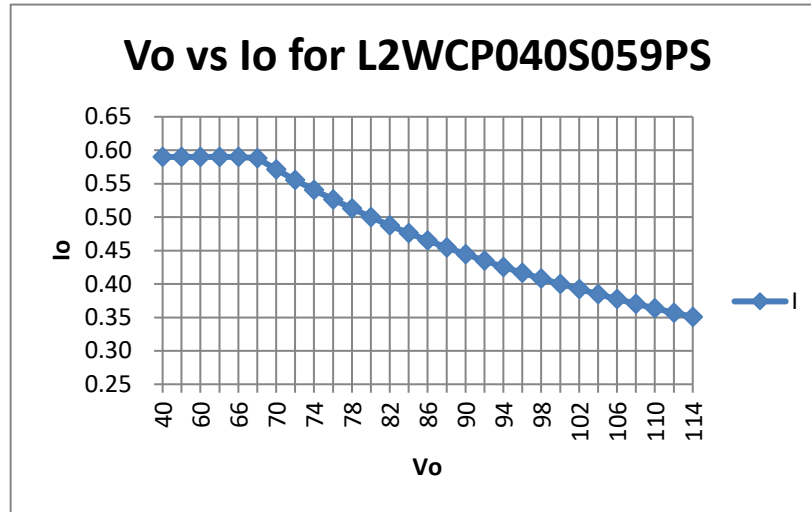


■ Lifetime vs Case Temp.



■ Vo vs Io





■ Near Field Communication Controller

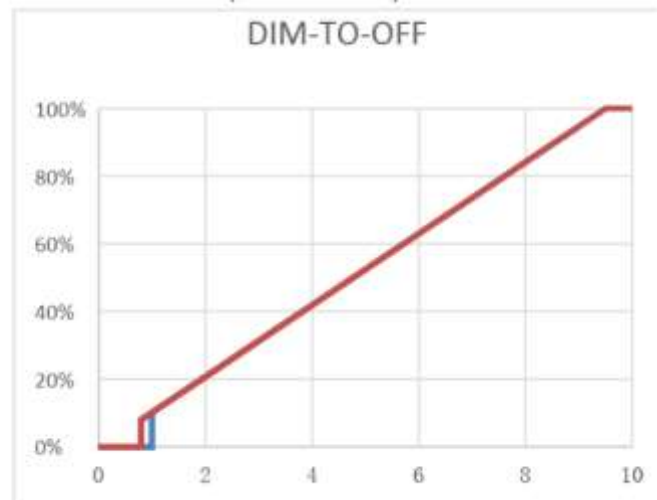
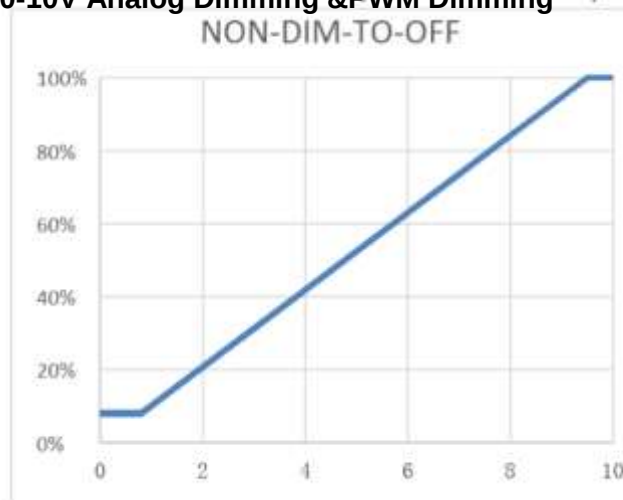


NOTE:

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



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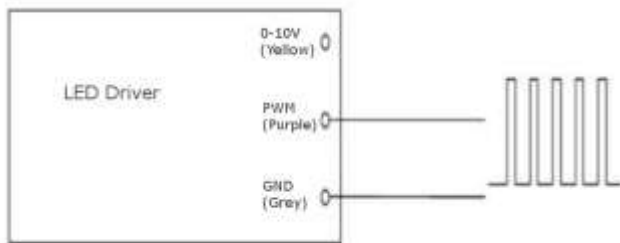
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GND	Grey
Dimming wire 0-10V & PWM	Purple
12V AUX	Yellow
Input Dimming Voltage	0-10V
DIM+ Source Current	0-1mA
12V AUX Source Current	20mA
PWM Frequency Range	1-10KHZ
PWM high level	10V

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.

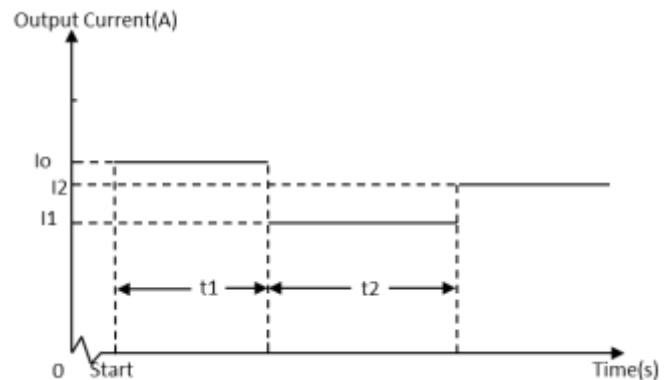
PWM Dimming



TIMER Dimming

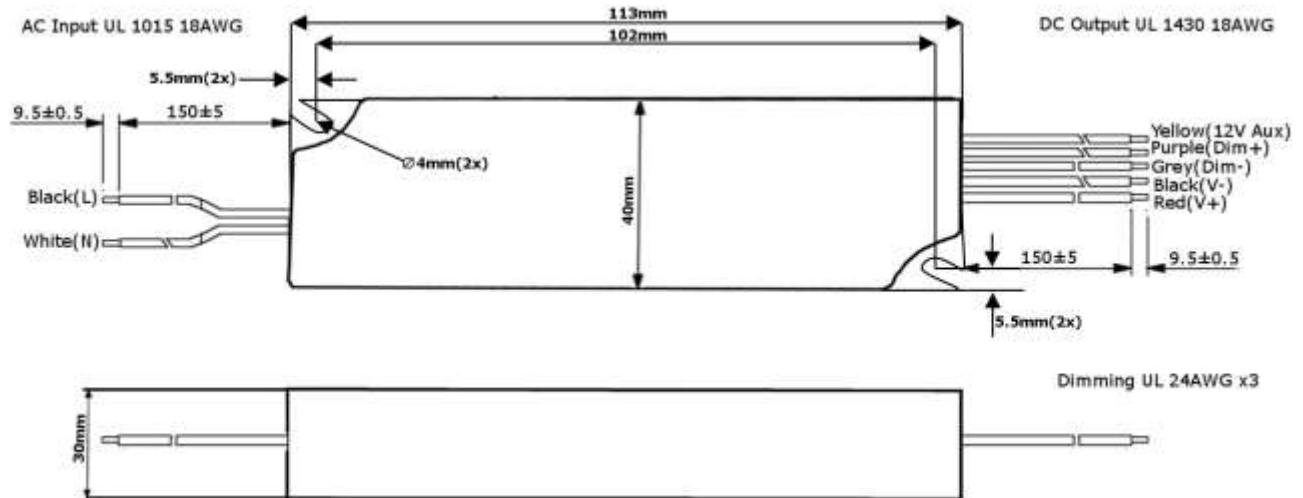
NOTE:

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.



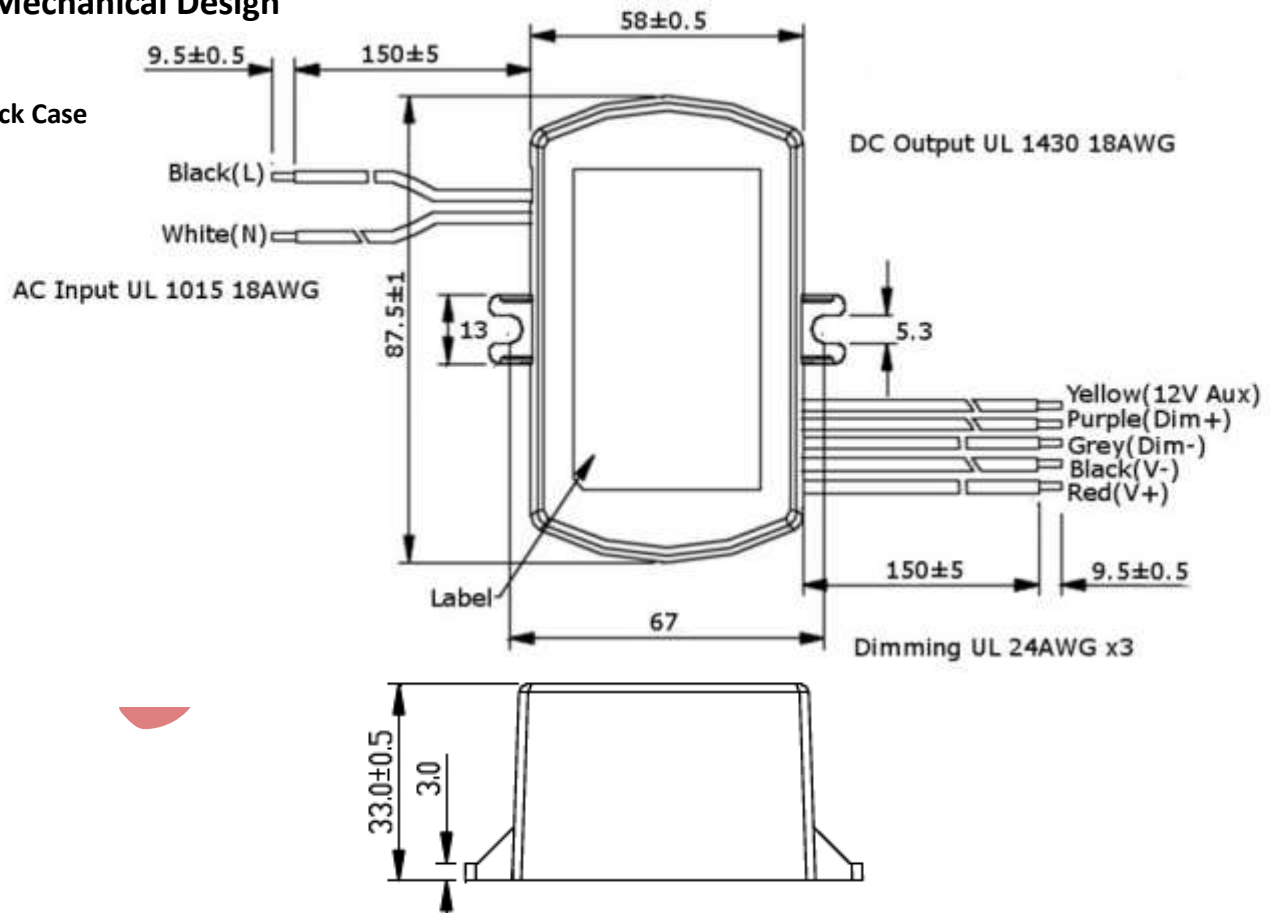
■ Mechanical Diagram

Rectangle Case



■ Mechanical Design

Puck Case

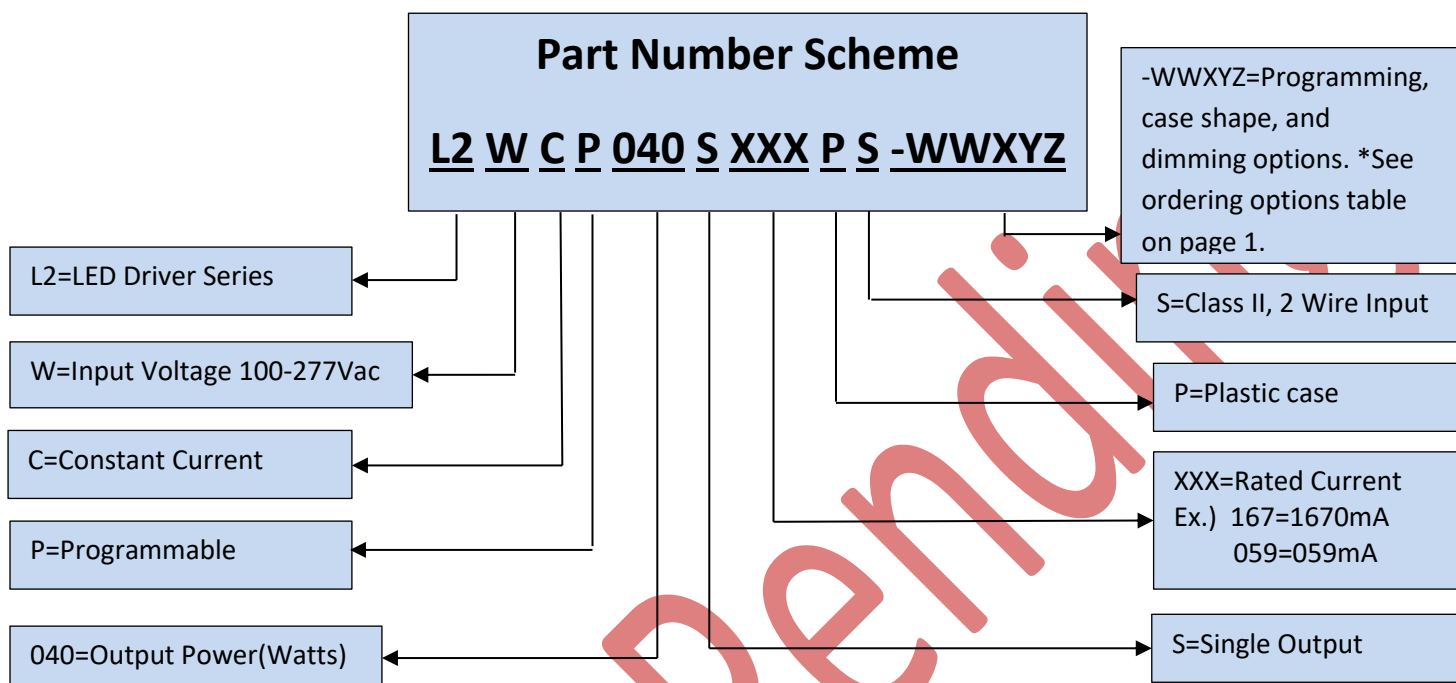


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