

■ Features

- Power Rating: 40W
- Input Voltage: 100-277Vac
- Constant current design
- Output current(350mA-1660mA)
- Efficiency up to 91%
- Optional Dimming 0-10V, PWM
- UL Class 2 outputs available
- OVP, OTP, SCP, PFC circuit
- IP66
- 5-year warranty
- Surge Protection: 2kV differential mode



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

■ Application

- Indoor or outdoor 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
LSWCD040S035PS 2	100-277Vac	40W	69-114V	350mA	350mA	89% @110Vac 91% @220Vac	UL/cUL
LSWCD040S045PS 2	100-277Vac	40W	53-89V	450mA	450mA	89% @110Vac 91% @220Vac	UL/cUL
LSWCD040S070PS 2*	100-277Vac	40W	34-57V	700mA	700mA	88% @110Vac 90% @220Vac	UL/cUL
LSWCD040S105PS 2*	100-277Vac	40W	23-38V	1050mA	1050mA	87% @110Vac 89% @220Vac	UL/cUL
LSWCD040S128PS 2*	100-277Vac	40W	19-31V	1280mA	1280mA	86% @110Vac 88% @220Vac	UL/cUL
LSWCD040S140PS 2*	100-277Vac	40W	17-29V	1400mA	1400mA	86% @110Vac 88% @220Vac	UL/cUL
LSWCD040S166PS 2*	100-277Vac	40W	14-24V	1660mA	1660mA	85% @110Vac 87% @220Vac	UL/cUL

*Class 2 outputs

■ Technical Data

Input voltage range	100-277Vac
Frequency	47Hz~63Hz
Inrush current	35A cold start @230Vac
Max input current	0.43A @110Vac and 0.21A @220Vac
THD	15% Max. @277Vac
Load Regulation	3%
Line Regulation	1%
Turn-on Delay Time	1.0~2.0s (Typ)
Leakage current	0.35mA at 277Vac, 50Hz input
Protection	Over voltage protection: 1.4 Vo $\pm$ 5% and will auto recover after the fault is removed. Short circuit protection: Will auto recover after the fault mode is removed. No damage shall occur to the power supply. Over temperature protection: 110°C internal temperature
Operating temperature	-35 ~ 60°C
Storage temperature	-40 ~ 85°C
Operating Humidity	10-100% RH non-condensing
Storage Humidity	5-100% RH
Surge protection	2kV differential mode
MTBF	450,000 hours
Life rating:	80,000 hours
Length (L)	3.74" (95mm)
Width (W)	2.76" (70mm)
Height (H)	1.26" (32mm)
Weight	330g

■ Safety Compliance

UL/cUL	UL 8750 compliance to UL1310 Class 2, UL1012 UL935 CAN/CSA-22.2 No.0, CSA-C22.2 No. 107.1, CSA-C22.2 No.250.0 EN61347-1, EN61347-2-13
EMI	EN55015
EMS Immunity	EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61547

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.

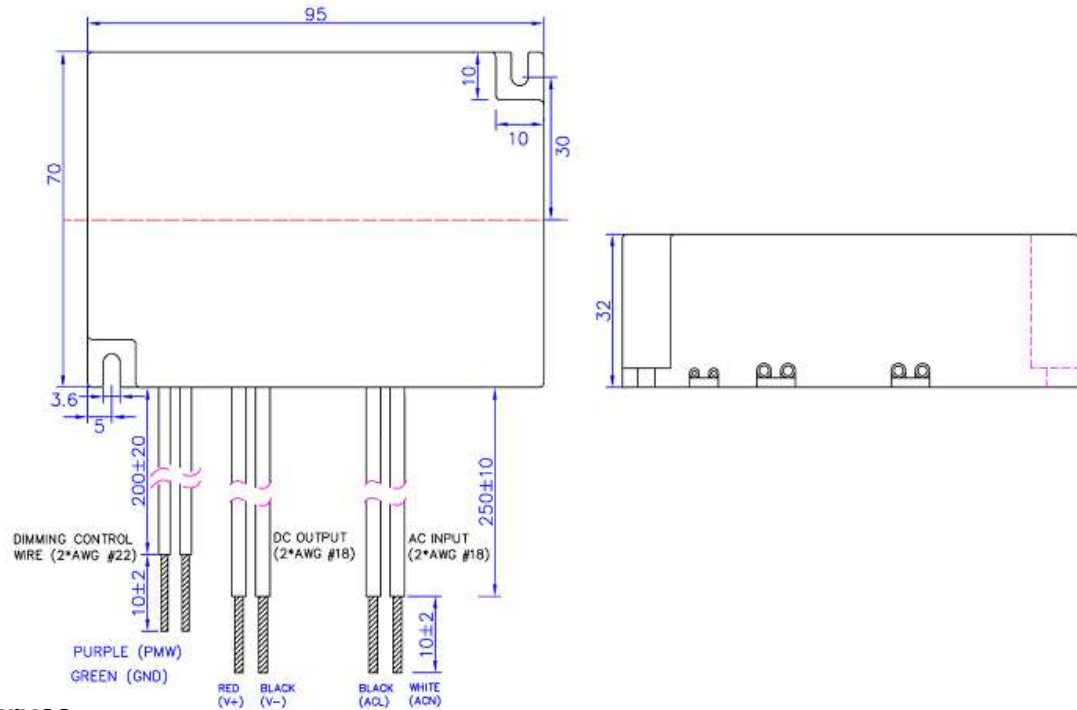
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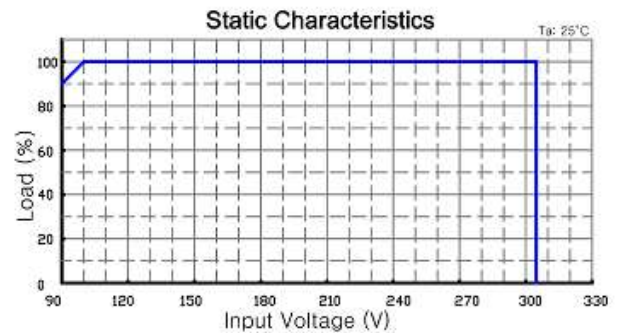
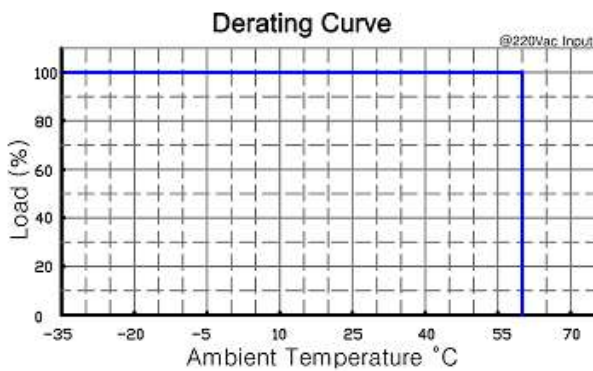
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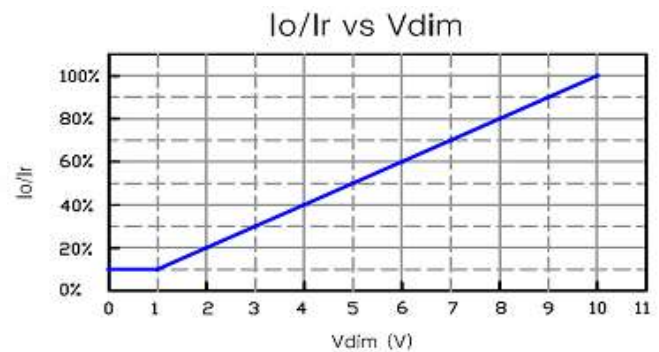
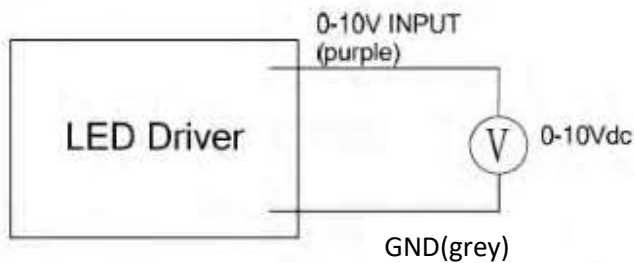
■ Wiring Diagram



■ Derating Curves



■ Dimming



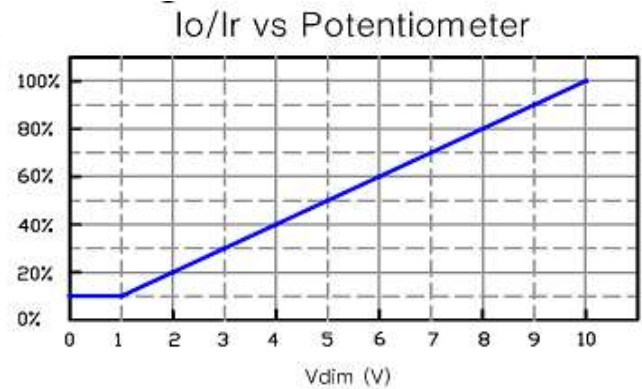
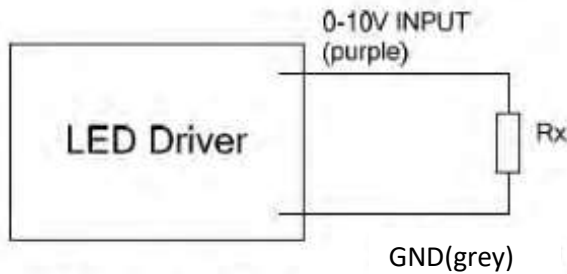
Mode 1: 0-10Vdc Input on Dimming Control

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■ Dimming(Cont.)



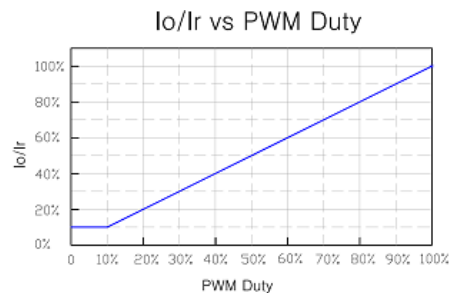
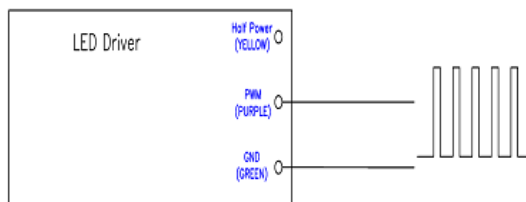
Mode 2: External Resistor on Dimming Control

Parameter	Values	Conditions
Absolute Max. Voltage	0 ~ 12 V	Normal 10~11V
0-10V Input Source Current	0 ~ 10 mA	

Note:

1. If the dimming is not used, short 10V output pin (yellow) and 1-10V input pin (purple).
2. I_o is actual output current and I_r is rated current without dimming control.
3. If the dimming signal is less than 1V the connected LEDs may flicker. Keeping dimming voltage greater than 1V in application is strongly recommended.
4. Do not connect the grey dimming wire to the output.

■ Lifetime Curves

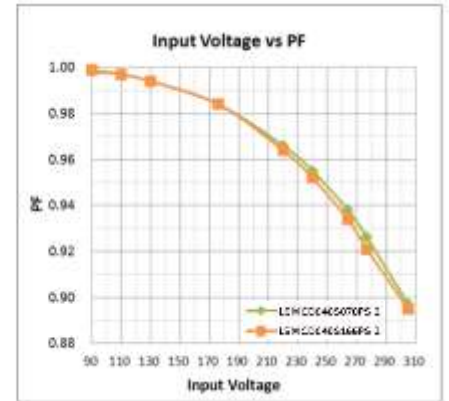
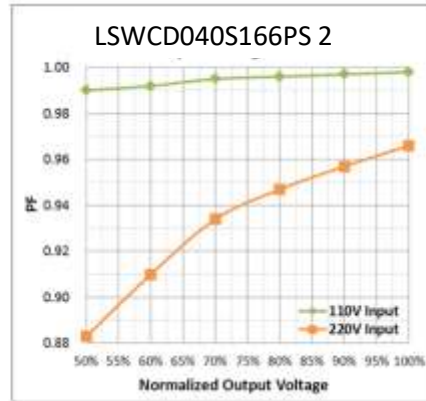
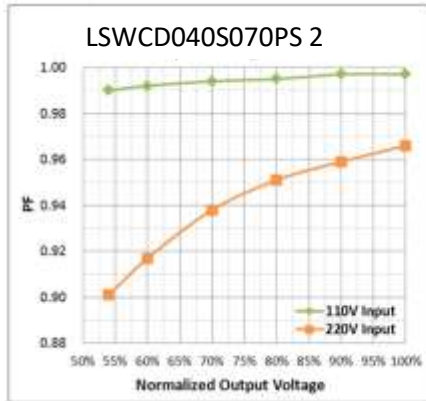


Parameter	Values	Conditions
Input Voltage	0~10 V	Purple wire.
Input Current	10 mA	
PWM Frequency	0.5 ~ 3 kHz	
PWM Pulse Width	10%~100%	

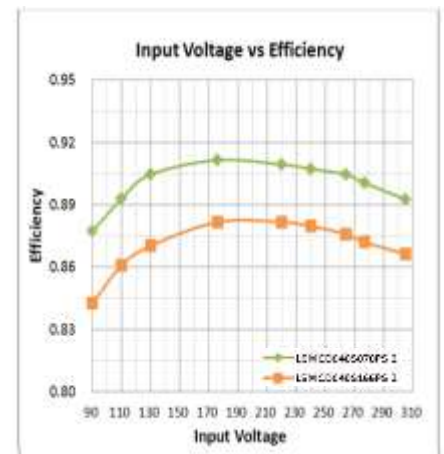
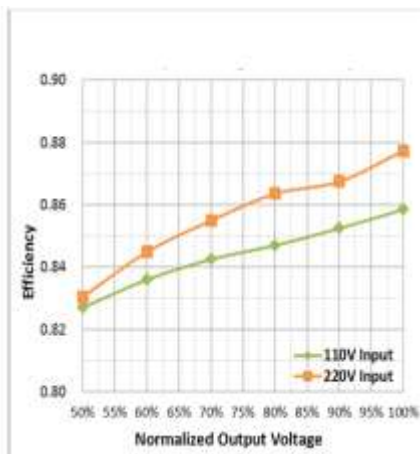
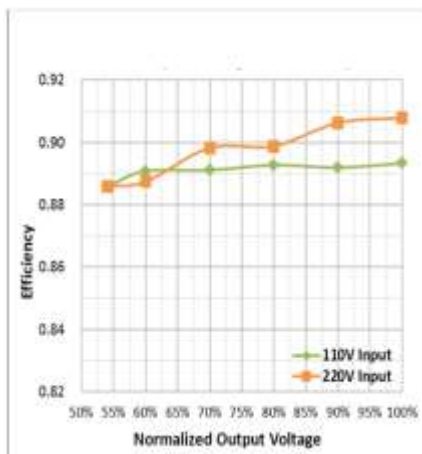
Note:

1. Pulse Width less than 10% will cause the LED Driver to work improperly.

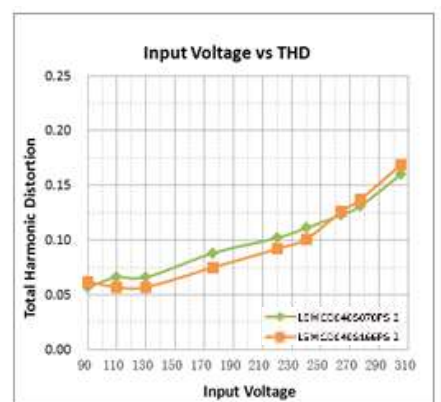
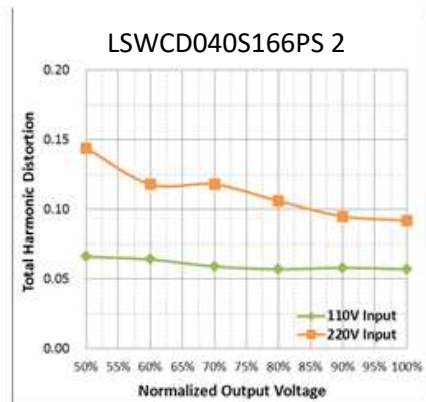
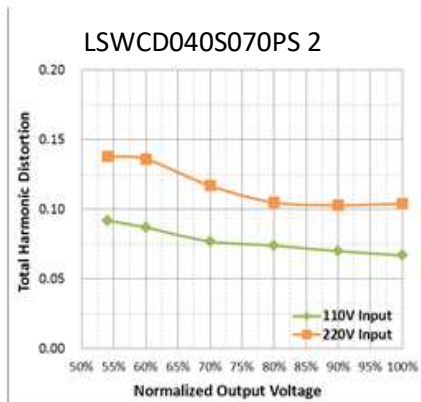
Power Factor Curves



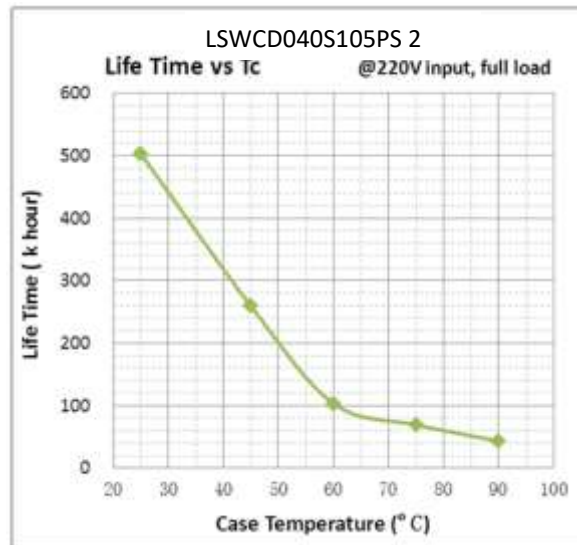
Efficiency Curves



THD Curves

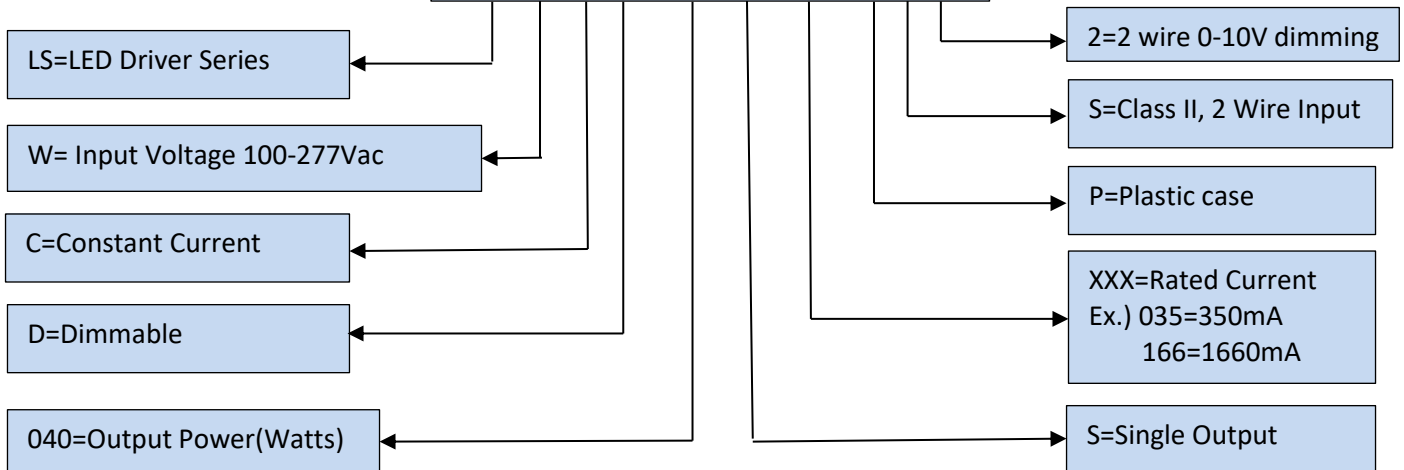


■ **Lifetime Curves**



Part Number Scheme

LS W C D 040 S XXX P S 2



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

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