

■ Features

- Power Rating: 40W
- Input Voltage: 100-277Vac
- Constant current design
- Output current(350mA-1660mA)
- Efficiency up to 91%
- Dimmable with 0-10V dimming
- UL Class 2 outputs available
- OVP, OTP, SCP, PFC circuit
- IP66
- 5-year warranty
- Two case options
- 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
LSWCD040S035ST-x	100-277Vac	40W	69-114V	350mA	350mA	91% @220Vac	UL/cUL
LSWCD040S045ST-x	100-277Vac	40W	54-89V	450mA	450mA	91% @220Vac	UL/cUL
LSWCD040S070ST-x*	100-277Vac	40W	34-57V	700mA	700mA	90% @220Vac	UL/cUL
LSWCD040S105ST-x*	100-277Vac	40W	23-38V	1050mA	1050mA	89% @220Vac	UL/cUL
LSWCD040S128ST-x*	100-277Vac	40W	19-31V	1280mA	1280mA	88% @220Vac	UL/cUL
LSWCD040S140ST-x*	100-277Vac	40W	17-29V	1400mA	1400mA	88% @220Vac	UL/cUL
LSWCD040S166ST-x*	100-277Vac	40W	14-24V	1660mA	1660mA	87% @220Vac	UL/cUL

*Class 2 output

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■ Technical Data

Input voltage range	90-305Vac
Frequency	47Hz~63Hz
Ripple and Noise	4.6V, 3.6V, 2.3V, 1.5, 1.3V, 1.2V
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	0.75mA 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 ~ 70°C
Storage temperature	-40 ~ 85°C
Humidity Operational	10%~100%RH
Humidity Storage	5% ~ 100%RH
MTBF	470,000 hours
Life rating:	85,000 hours
Length (L)	Narrow: 6.77" (172mm) Wide: 3.98" (101mm)
Width (W)	Narrow: 1.71" (43.5mm) Wide: 2.66" (67.5mm)
Height (H)	Narrow: 1.36" (34.5mm) Wide: 1.44" (36.5mm)
Weight	455g(Narrow)

■ Safety Compliance

UL/cUL	UL 8750 compliance to UL1310 Class 2
EMI Radiated & Conducted	FCC Part 15 Class B
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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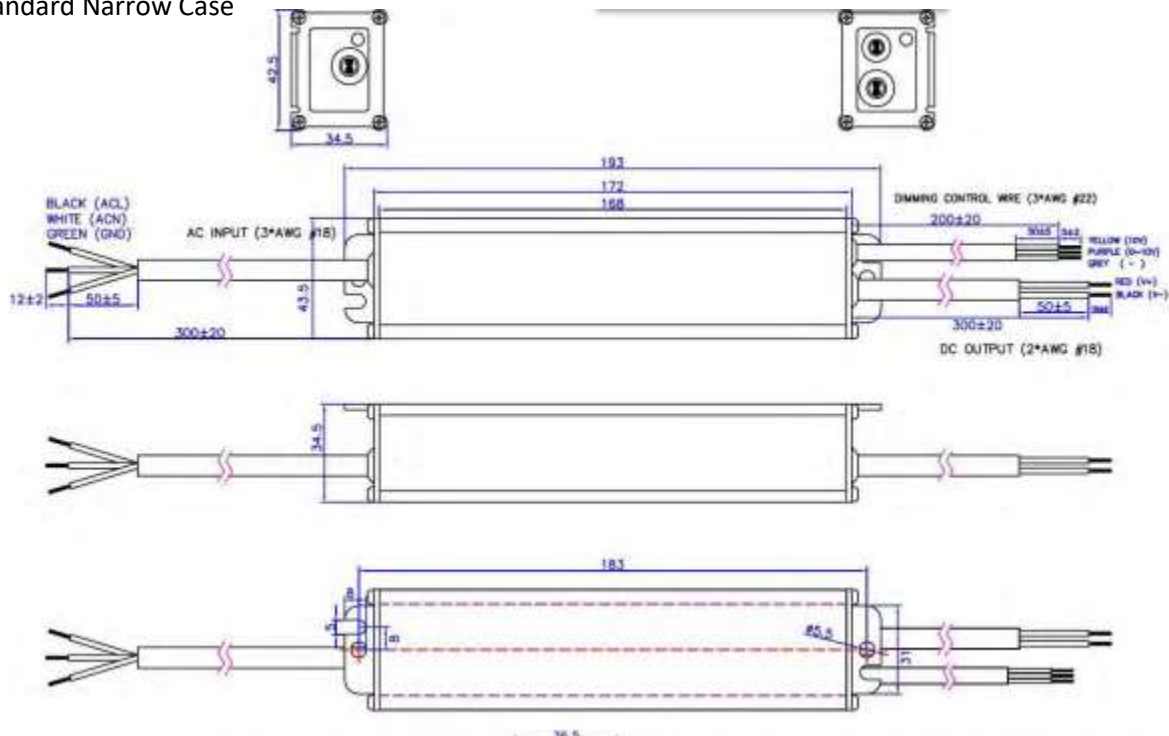
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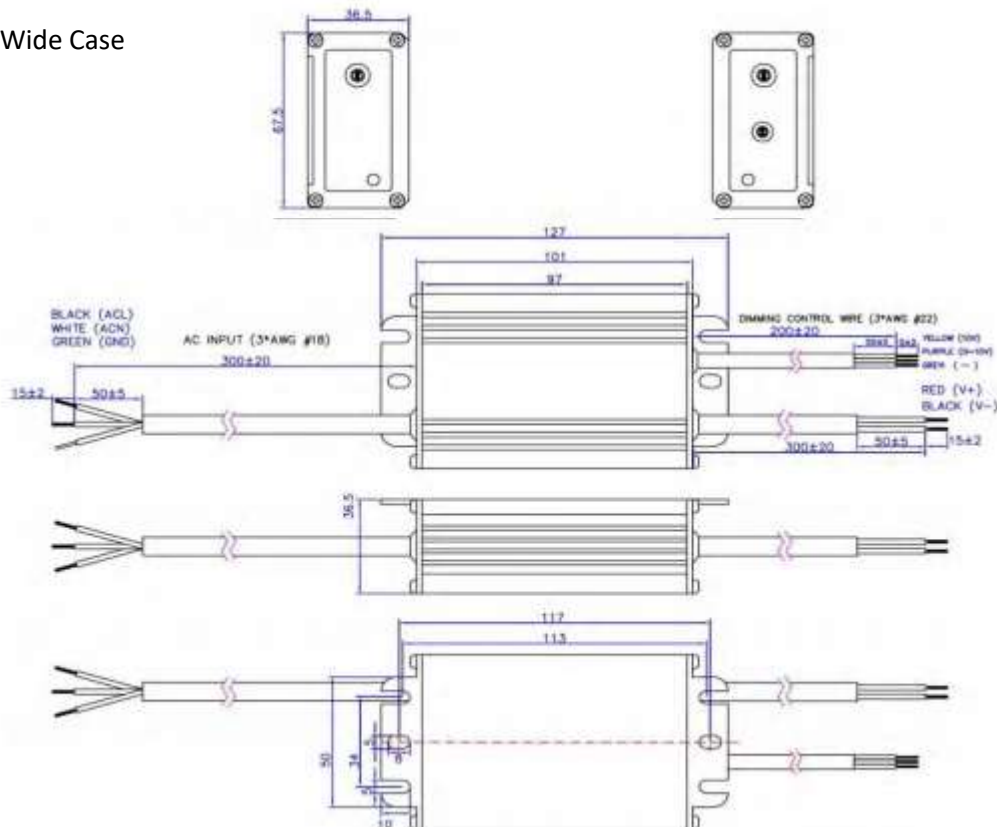
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■ Wiring Diagram

Standard Narrow Case



Special Wide Case

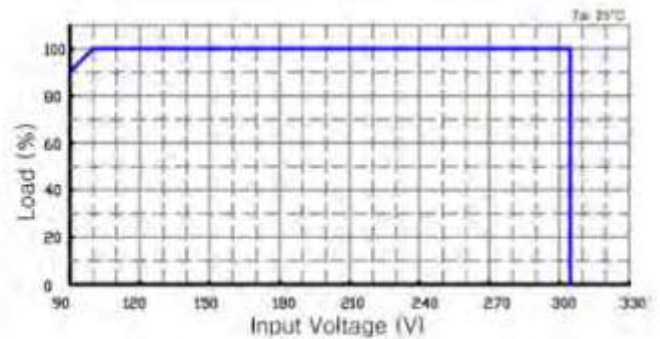
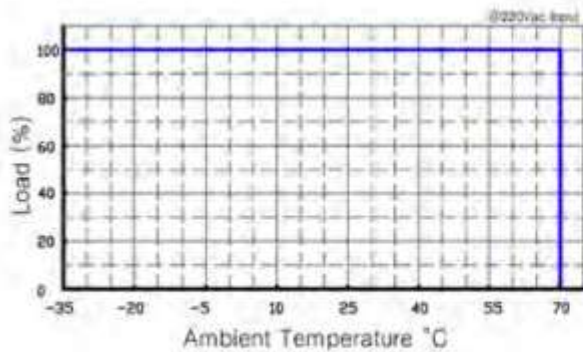


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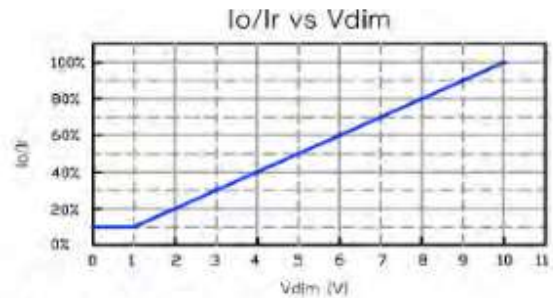
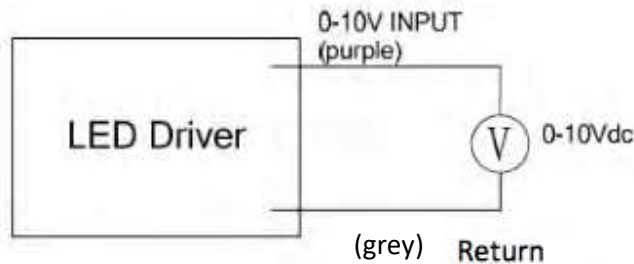
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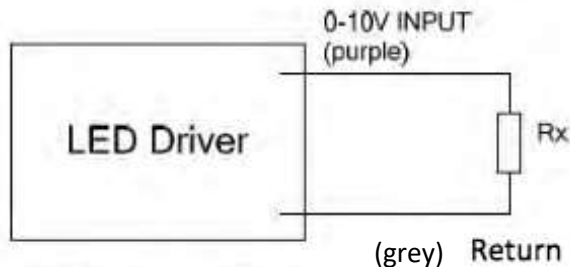
■ Derating Curves



■ Dimming



Mode 1: 0-10Vdc Input on Dimming Control



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	

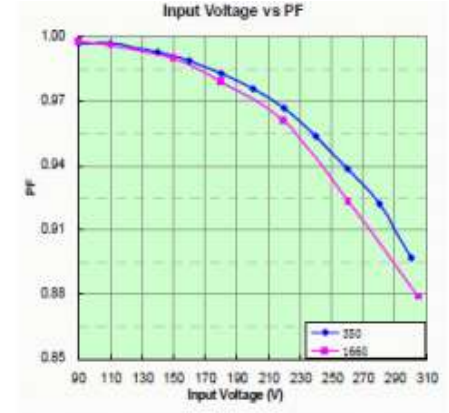
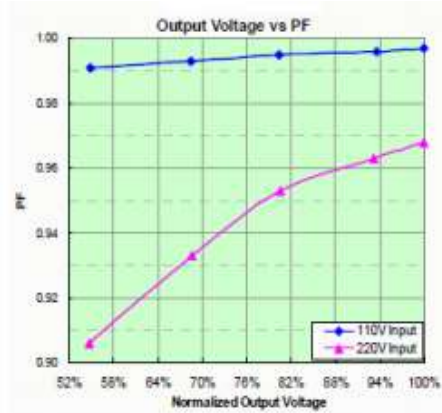
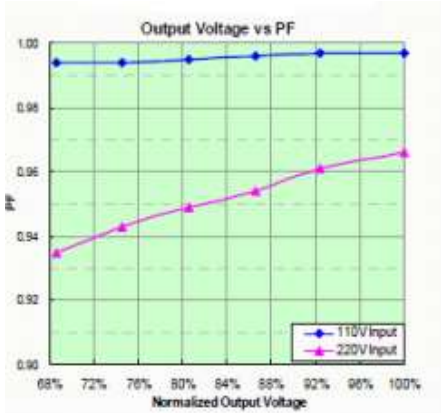
Note:

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.

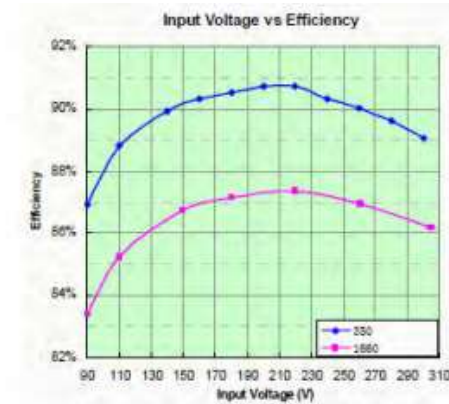
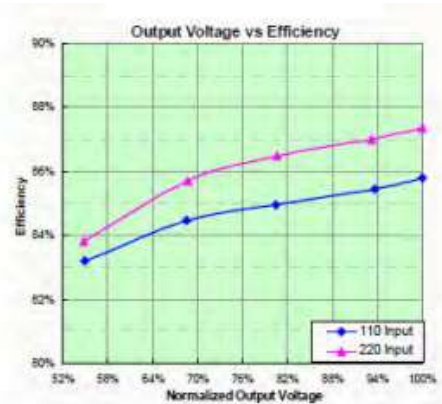
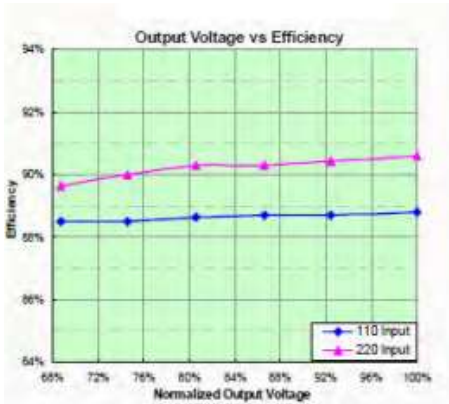
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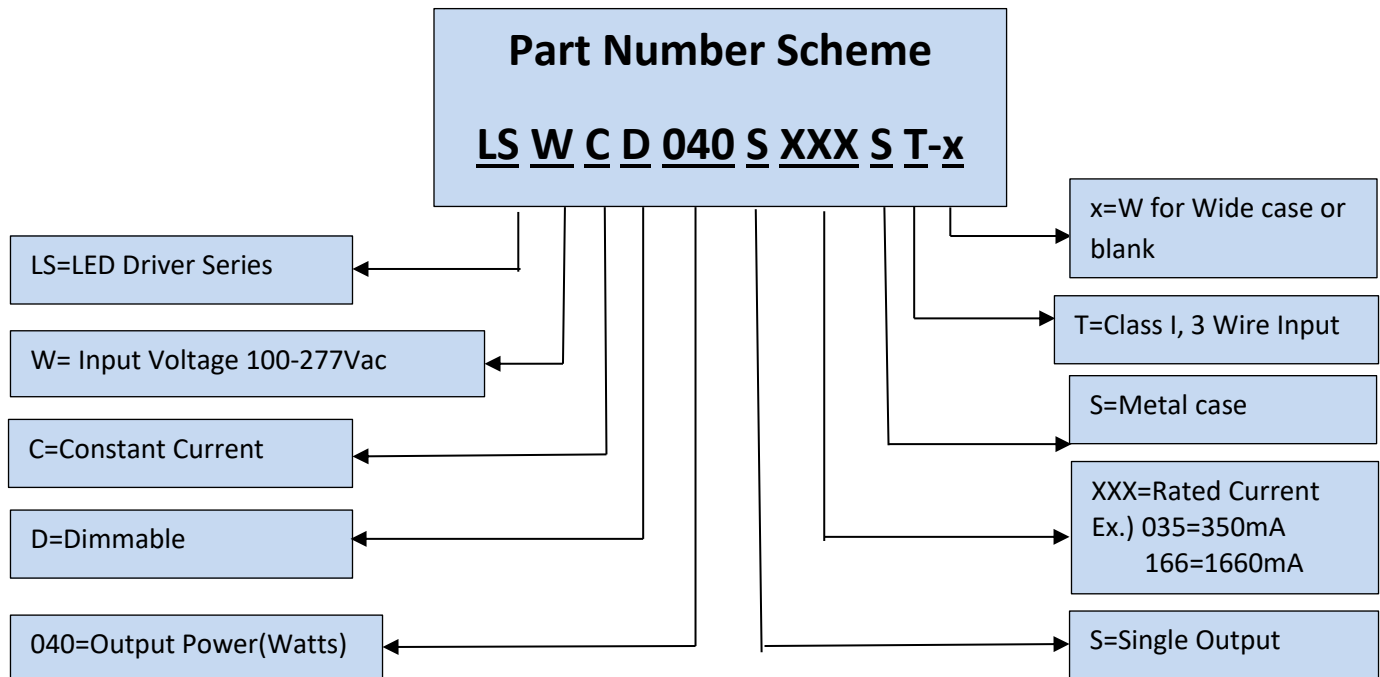
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■ Power Factor Curves



■ Efficiency Curves





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