LXWCD050QXXXSS-20 Series

50W, 120~277Vac Input, Quad Output, Constant Current LED Driver

RoHS Compliant

Features

- Power Rating: 50W
- Input Voltage: 120-277Vac ± 10%
- Constant current design
- Fixed output current(230mA-600mA)
- Efficiency to 83%
- Dimming: 0-10V
- UL Class 2, Type HL
- OVP, OCP, SCP, and OTP
- IP20
- 5-year warranty
- Metal case

*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
LXWCD050Q023SS-20	120~277Vac ± 10%	12.5Wx4	27-54V	230mA	230mA	82% @120V 83% @240V 83% @277V	UL/-
LXWCD050Q030SS-20	120~277Vac ± 10%	12.5Wx4	21-42V	300mA	300mA	82% @120V 83% @240V 83% @277V	UL/cUL
LXWCD050Q035SS-20	120~277Vac ± 10%	12.5Wx4	18-36V	350mA	350mA	82% @120V 83% @240V 83% @277V	UL/cUL
LXWCD050Q040SS-20	120~277Vac ± 10%	12.5Wx4	16-31V	400mA	400mA	81% @120V 82% @240V 82% @277V	UL/cUL
LXWCD050Q050SS-20	120~277Vac ± 10%	12.5Wx4	12-25V	500mA	500mA	81% @120V 82% @240V 82% @277V	UL/cUL
LXWCD050Q060SS-20	120~277Vac ± 10%	12.5Wx4	12-20V	600mA	600mA	81% @120V 82% @240V 82% @277V	UL/cUL

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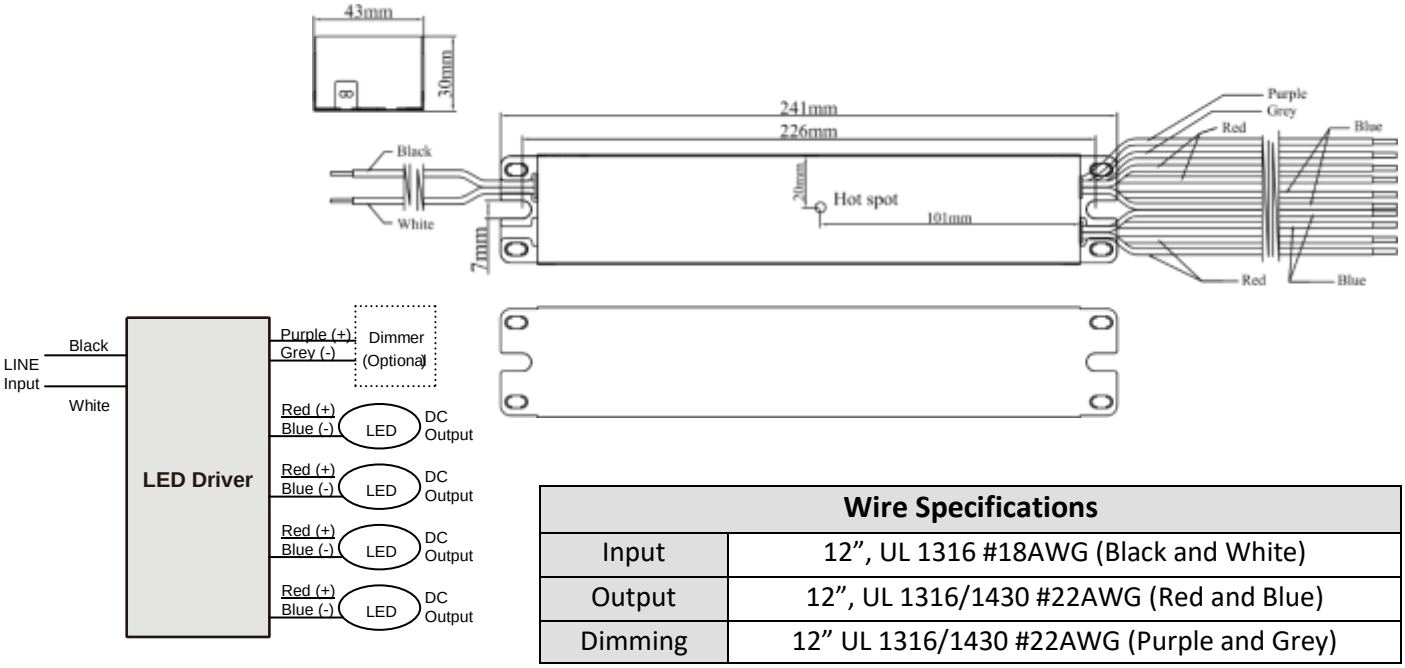
■ Wiring Diagram



Wire Specifications	
Input	12”, UL 1316 #18AWG (Black and White)
Output	12”, UL 1316/1430 #22AWG (Red and Blue)
Dimming	12” UL 1316/1430 #22AWG (Purple and Grey)

■ Technical Data

Input voltage range	120~277Vac ± 10%
Frequency	50/60Hz
Power factor	> 0.9 under 120~277Vac input with 80~100% load condition (for all output currents)
Inrush current	20A @ 230V
Max input current	0.54A @120V, 0.30A @240V, 0.24A @277V
THD	< 20% under 120~277Vac input with 80~100% load condition (for all output currents)
Load Regulation	± 2%
Line Regulation	± 1%
Current Tolerance	± 5% at full load condition
Turn-on Delay Time	< 0.75s at full load condition
Overshoot	< 10% at full load condition
No Load Power Consumption	<1.5W
Ripple & Noise (pk-pk)	<3%
Withstand voltage	Input to output, 2,800Vdc, 2mA
Leakage current	Maximum 0.5mA at 277Vac, 60Hz input

■ Technical Data(cont.)

Protection	Over voltage protection: Hiccup mode. Protection will trigger when load voltage exceeds specified output voltage and will auto recover after the fault mode is removed. Over current protection: Hiccup mode. Protection will trigger when load current exceeds specified output current and will auto recover after the fault mode is removed. Short circuit protection: Hiccup mode. Protection will trigger when short circuit and will auto recover after the fault mode is removed. Over temperature protection: Protection will trigger when driver overheat and auto-recovery when cooled down.
Operating temperature	-40 to 60°C
Storage temperature	-40 to 85°C
Humidity	5% to 95%
MTBF	254,000 hours at 40°C ambient (~70°C case temp)
Life rating	60,000 hours at 120Vac input, 100% load and 60°C case temp
Maximum case Temperature	70°C
Length (L)	9.50” (241mm)
Width (W)	1.70” (43mm)
Height (H)	1.15” (30mm)
Mounting (M)	8.90” (226mm)
Packing	0.6kg/unit; 30pcs/carton; 1,200pcs/pallet

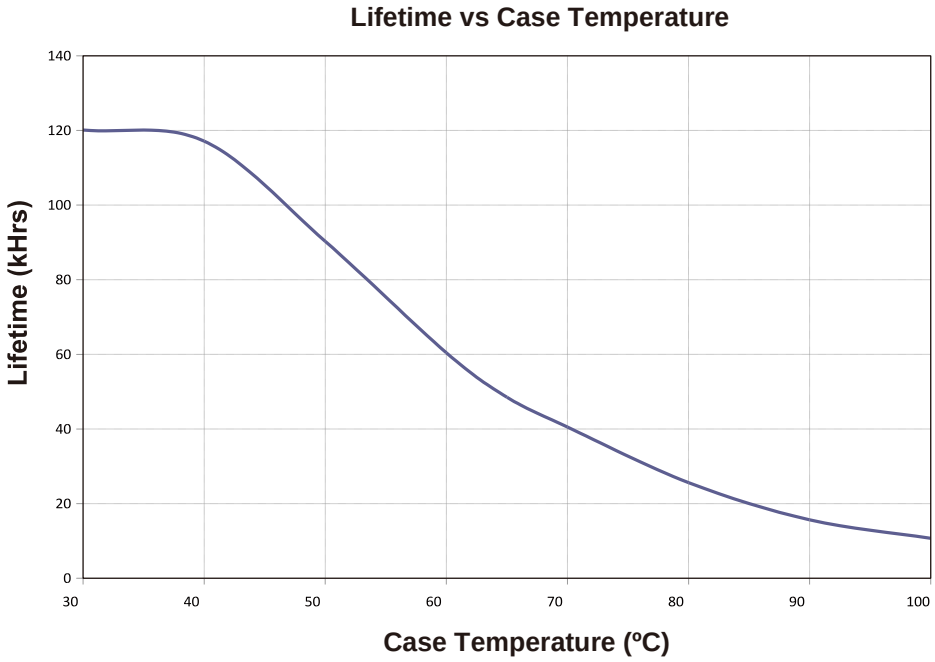
■ Safety Compliance

UL/cUL	UL 8750, Type HL
CE	EN61347-1, EN61347-2-13
FCC, 47CFR Part 15	ANSI C63.4:2009 Class A (Consumer Limit)
EN61000-3-2	Harmonic Current Emissions Class C

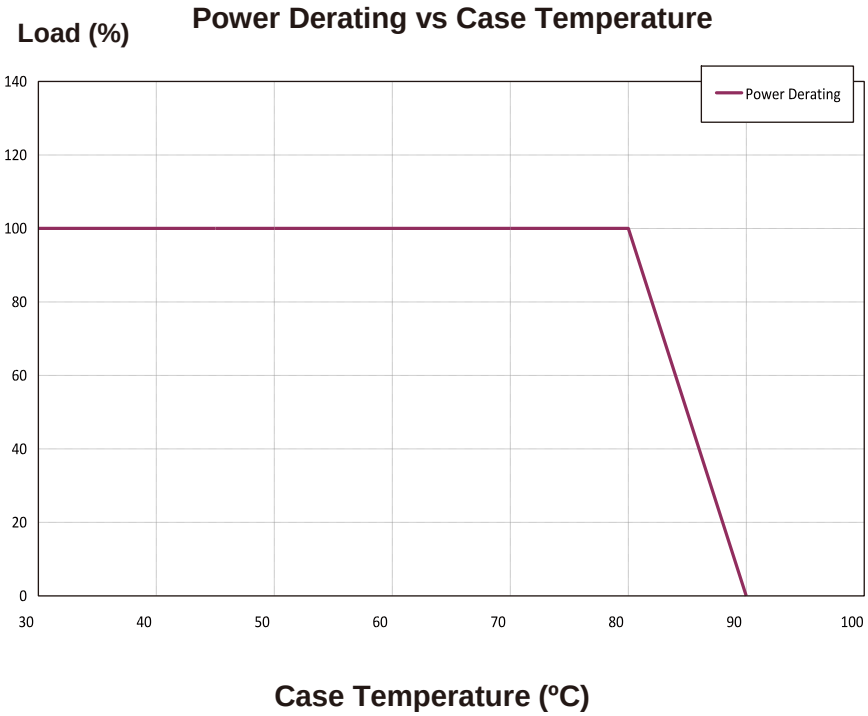
Disclaimer:

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.

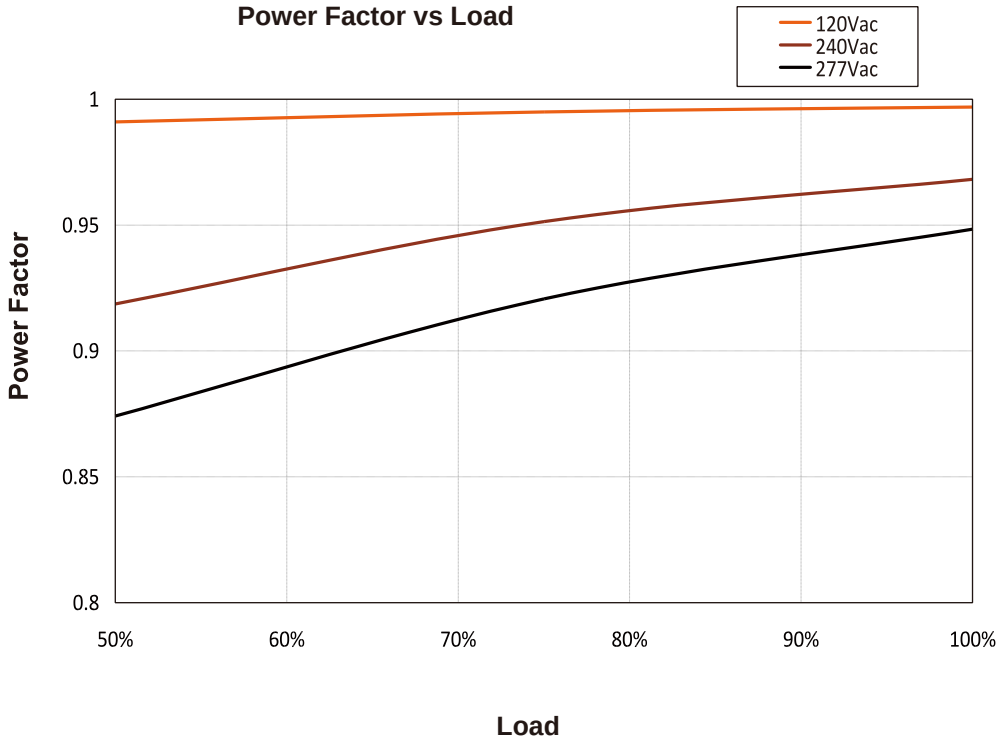
■ Lifetime vs Case Temperature



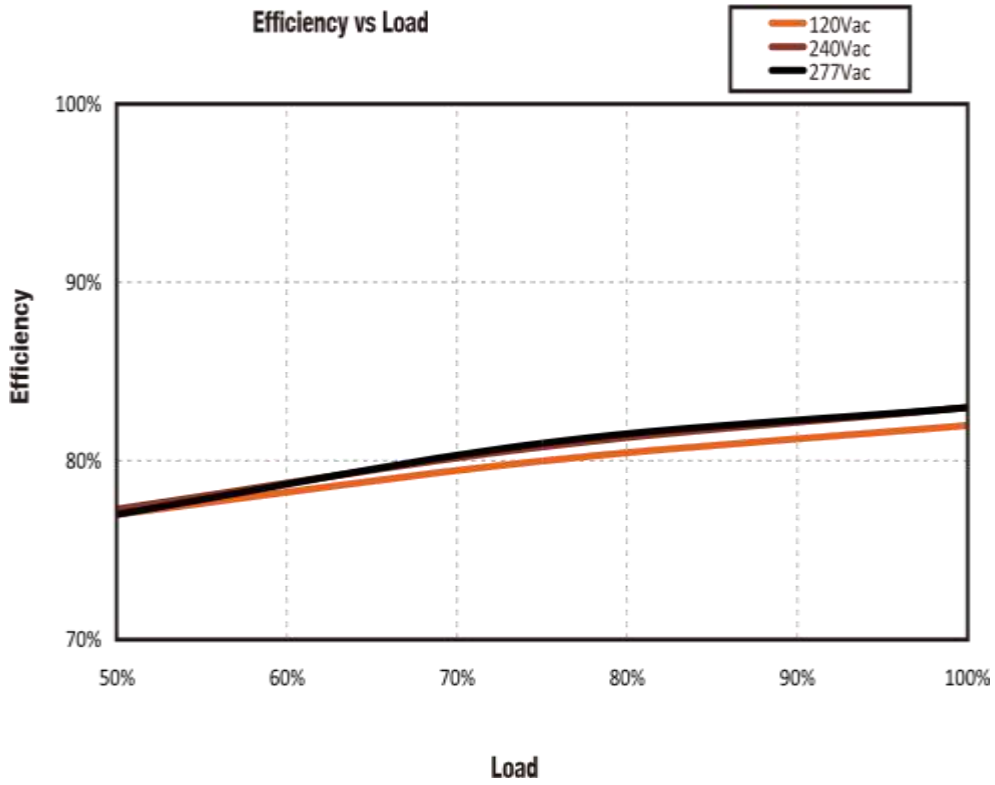
■ Power Derating vs Case Temperature

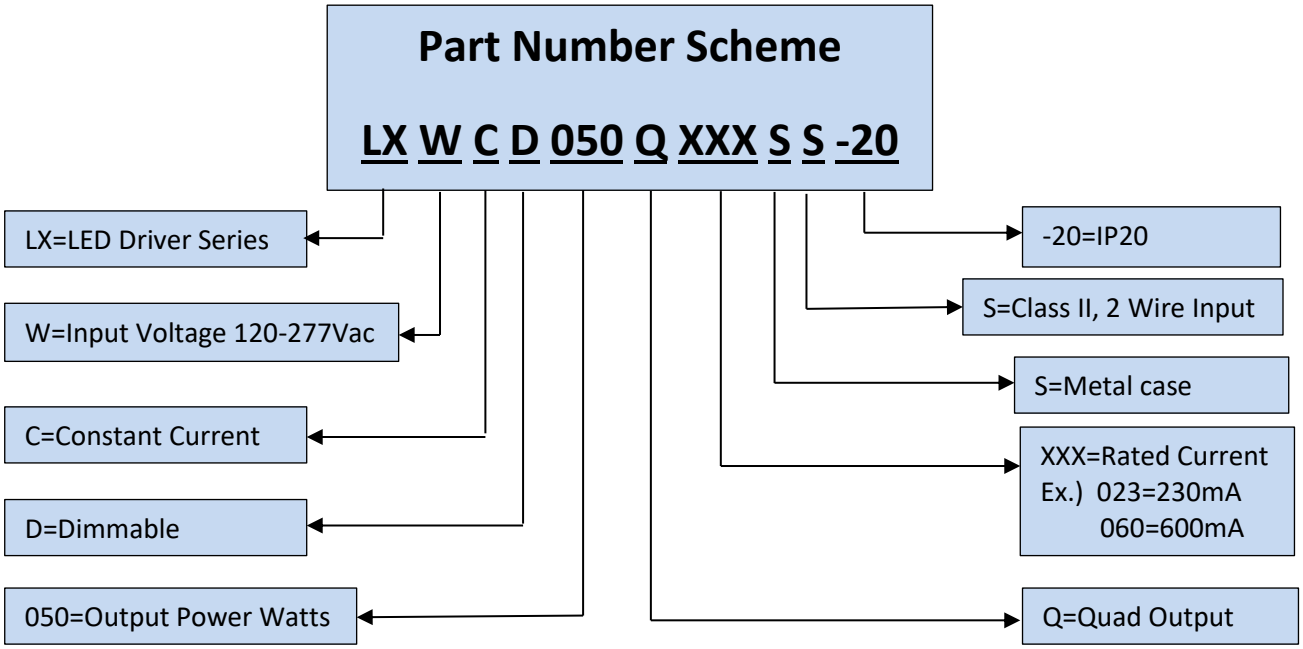


■ Power Factor vs Load



■ Efficiency vs Load





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