

■ Features

- Power Rating: 100W
- Input Voltage: 120-277Vac $\pm$ 10%
- Constant current design
- Fixed output current(500mA-3200mA)
- Efficiency to 90%
- Dimming: 0-10V
- UL Class P, Type HL, Class 2 output options available
- OVP, OCP, SCP, and OTP
- IP20
- 5-year warranty
- Metal case
- Surge protection level 6kV/3kA common/diff mode



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

■ Application

- Indoor 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
LXWCD100S050ST-20	120~277Vac $\pm$ 10%	100W	100-200V	500mA	500mA	88%@120V 89%@240V 89%@277V	-/-
LXWCD100S053ST-20	120~277Vac $\pm$ 10%	100W	94-188V	530mA	530mA	88%@120V 89%@240V 89%@277V	-/-
LXWCD100S060ST-20	120~277Vac $\pm$ 10%	100W	83-167V	600mA	600mA	88%@120V 89%@240V 89%@277V	-/-
LXWCD100S070ST-20	120~277Vac $\pm$ 10%	100W	72-143V	700mA	700mA	88%@120V 89%@240V 89%@277V	-/-
LXWCD100S080ST-20	120~277Vac $\pm$ 10%	100W	63-125V	800mA	800mA	88%@120V 89%@240V 89%@277V	-/-
LXWCD100S090ST-20	120~277Vac $\pm$ 10%	100W	56-111V	900mA	900mA	88%@120V 89%@240V 89%@277V	-/-
LXWCD100S100ST-20	120~277Vac $\pm$ 10%	100W	50-100V	1000mA	1000mA	88%@120V 89%@240V 89%@277V	-/-
LXWCD100S110ST-20	120~277Vac $\pm$ 10%	100W	45-91V	1100mA	1100mA	87%@120V 88%@240V 89%@277V	-/-
LXWCD100S120ST-20	120~277Vac $\pm$ 10%	100W	43-83V	1200mA	1200mA	87%@120V 88%@240V 89%@277V	-/-

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LXWCD100S130ST-20	120~277Vac $\pm$ 10%	100W	38-77V	1300mA	1300mA	87%@120V 88%@240V 89%@277V	-/-
LXWCD100S140ST-20	120~277Vac $\pm$ 10%	100W	36-71V	1400mA	1400mA	87%@120V 88%@240V 89%@277V	-/-
LXWCD100S150ST-20	120~277Vac $\pm$ 10%	100W	33-67V	1500mA	1500mA	87%@120V 88%@240V 88%@277V	-/-
LXWCD100S160ST-20	120~277Vac $\pm$ 10%	100W	31-63V	1600mA	1600mA	87%@120V 88%@240V 88%@277V	-/-
LXWCD100S170ST-20*	120~277Vac $\pm$ 10%	100W	29-59V	1700mA	1700mA	87%@120V 88%@240V 88%@277V	-/-
LXWCD100S177ST-20*	120~277Vac $\pm$ 10%	100W	28-56V	1770mA	1770mA	87%@120V 88%@240V 88%@277V	-/-
LXWCD100S178ST-20*	120~277Vac $\pm$ 10%	100W	28-56V	1780mA	1780mA	87%@120V 88%@240V 88%@277V	UL/-
LXWCD100S180ST-20*	120~277Vac $\pm$ 10%	100W	28-56V	1800mA	1800mA	87%@120V 88%@240V 88%@277V	UL/-
LXWCD100S190ST-20*	120~277Vac $\pm$ 10%	100W	26-53V	1900mA	1900mA	87%@120V 88%@240V 88%@277V	UL/-
LXWCD100S200ST-20*	120~277Vac $\pm$ 10%	100W	25-50V	2000mA	2000mA	87%@120V 88%@240V 88%@277V	UL/-
LXWCD100S210ST-20*	120~277Vac $\pm$ 10%	100W	24-48V	2100mA	2100mA	87%@120V 88%@240V 88%@277V	UL/-
LXWCD100S220ST-20*	120~277Vac $\pm$ 10%	100W	23-45V	2200mA	2200mA	87%@120V 88%@240V 88%@277V	UL/-
LXWCD100S230ST-20*	120~277Vac $\pm$ 10%	100W	22-43V	2300mA	2300mA	87%@120V 88%@240V 88%@277V	UL/-
LXWCD100S240ST-20*	120~277Vac $\pm$ 10%	100W	21-42V	2400mA	2400mA	87%@120V 88%@240V 88%@277V	UL/cUL
LXWCD100S250ST-20*	120~277Vac $\pm$ 10%	100W	20-40V	2500mA	2500mA	87%@120V 88%@240V 88%@277V	UL/cUL
LXWCD100S260ST-20*	120~277Vac $\pm$ 10%	100W	19-38V	2600mA	2600mA	87%@120V 88%@240V 88%@277V	UL/cUL

LXWCD100S270ST-20*	120~277Vac ± 10%	100W	18-37V	2700mA	2700mA	86%@120V 87%@240V 88%@277V	UL/cUL
LXWCD100S275ST-20*	120~277Vac ± 10%	100W	18-36V	2750mA	2750mA	86%@120V 87%@240V 88%@277V	UL/cUL
LXWCD100S280ST-20*	120~277Vac ± 10%	100W	17-35V	2800mA	2800mA	86%@120V 87%@240V 88%@277V	UL/cUL
LXWCD100S290ST-20*	120~277Vac ± 10%	100W	17-34V	2900mA	2900mA	86%@120V 87%@240V 88%@277V	UL/cUL
LXWCD100S300ST-20*	120~277Vac ± 10%	100W	17-33V	3000mA	3000mA	86%@120V 87%@240V 88%@277V	UL/cUL
LXWCD100S310ST-20*	120~277Vac ± 10%	100W	16-32V	3100mA	3100mA	86%@120V 87%@240V 88%@277V	UL/cUL
LXWCD100S320ST-20*	120~277Vac ± 10%	100W	16-31V	3200mA	3200mA	86%@120V 87%@240V 88%@277V	UL/cUL

*Class 2 output

■ 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	30A@120V
Max input current	1.07A @120V, 0.54A @240V, and 0.47A @277V
THD	<20% under 120-277Vac input with 80-100% load condition (for all output currents)
Load regulation	± 1%
Line regulation	± 1%
Output tolerance	± 5% at full load condition
Turn-on delay time	<1s at full load condition
Overshoot	< 10% at full load condition
No load power consumption	< 2W
Ripple & Noise (pk-pk)	< 3%
Withstand voltage	Input to output, 2,800Vdc, 2mA
Leakage current	Maximum 0.5mA at 277Vac, 60Hz input

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■ 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 it short circuits 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	125,000 hours at 40°C ambient (~70°C case temp)
Life rating	85,000 hours at 120Vac input, 100% load and 60°C case temperature
Maximum case Temperature	90°C
Length (L)	9.50" (241mm)
Width (W)	1.70" (43mm)
Height (H)	1.15" (30mm)
Mounting (M)	8.90" (226mm)
Weight	0.55kg
Packaging	0.55kg/unit; 30pcs/carton; 1,080pcs/pallet

■ Safety Compliance

UL/cUL	UL 8750, Class P, Type HL
CE	EN61347-1, EN61347-2-13
FCC, 47CFR Part 15	ANSI C63.4:2009 Class B (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.

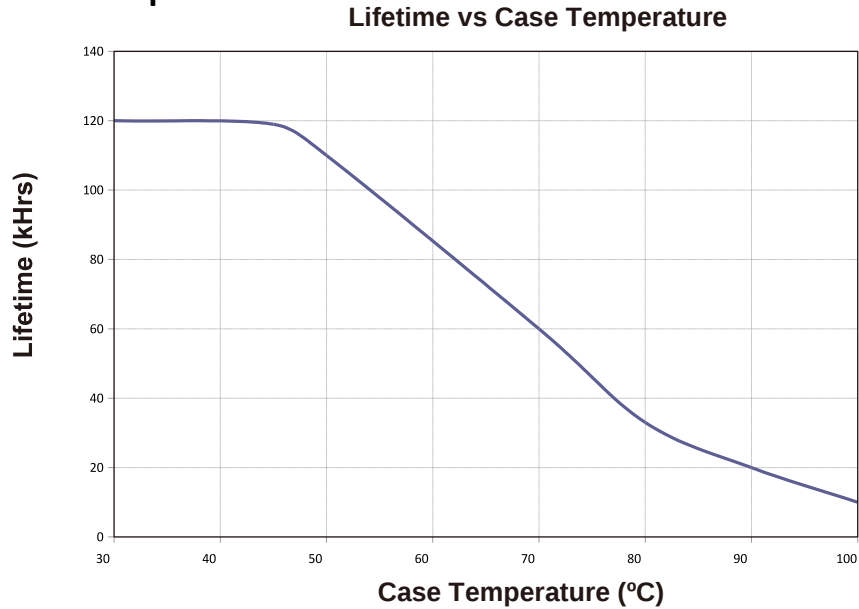
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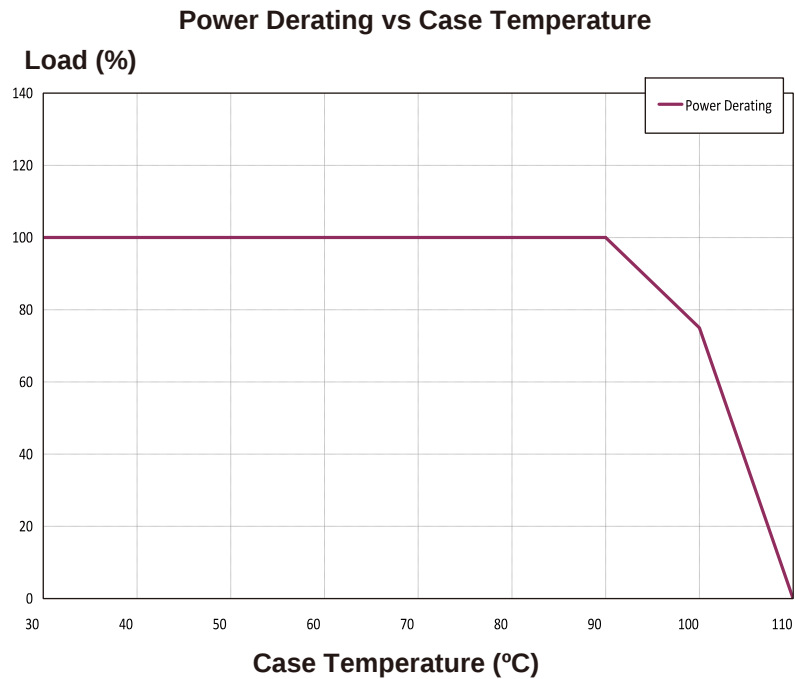
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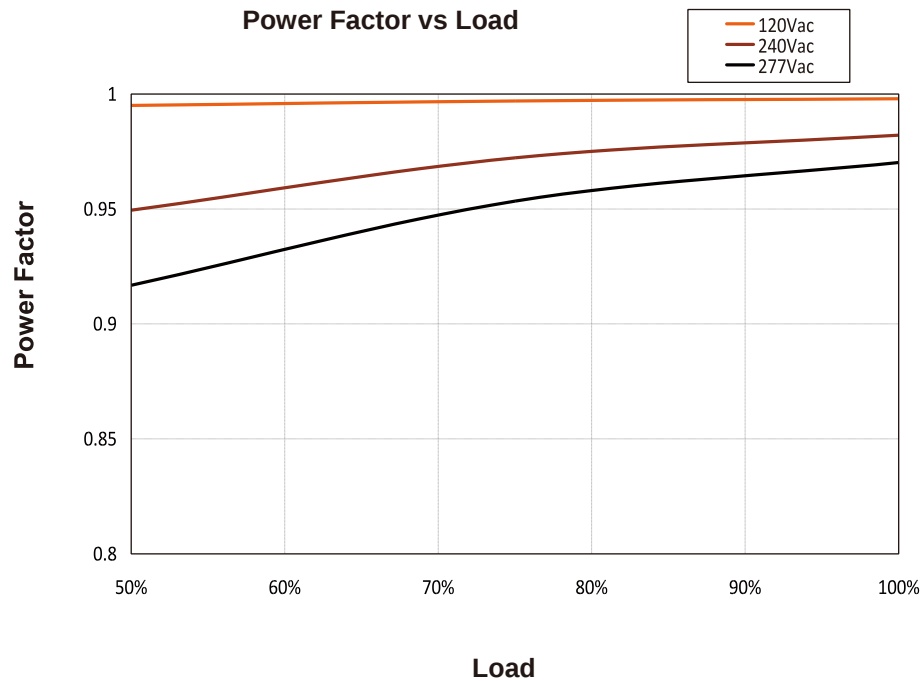
■ Lifetime vs Case Temperature



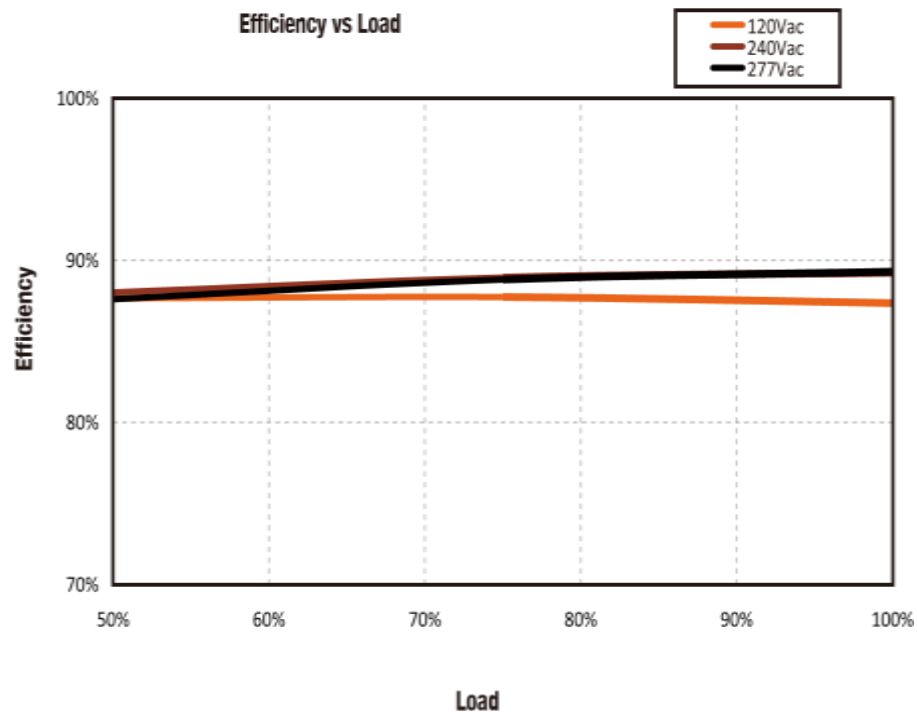
■ Power Derating vs Case Temperature



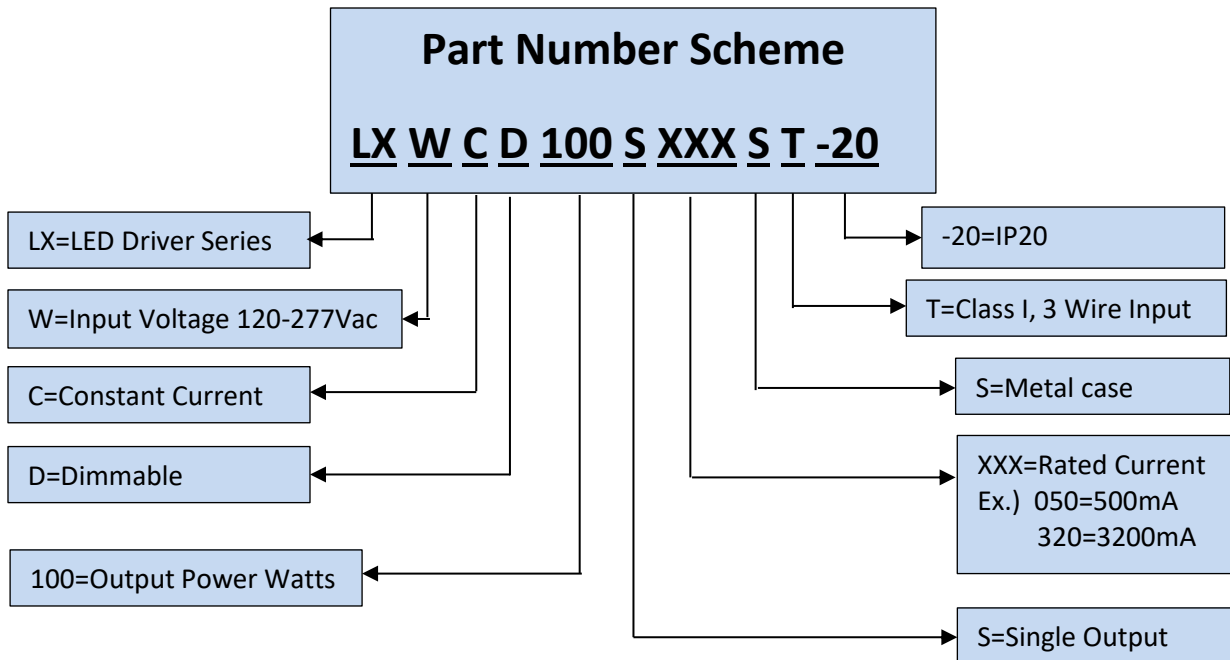
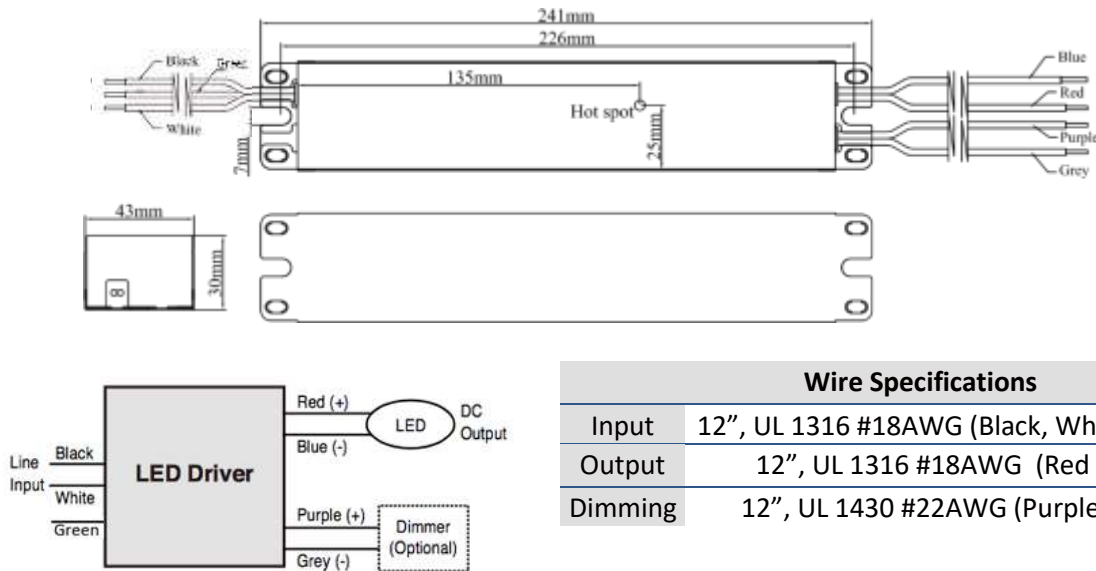
■ **Power Factor vs Load**



■ **Efficiency vs Load**



■ **Wiring Diagram**



***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.**

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