LXWCP100SXXXST-L Series

100W, 120~277Vac Input, Programmable Constant Current LED Driver

RoHS Compliant

Features

- Power Rating: 100W
- Input Voltage: 120-277Vac
- Constant current design
- Programmable output currents (590mA-3500mA)
- Near Field Communication Programmability
- Bluetooth module input capability
- Auxiliary power: 12Vdc, 200mA max
- Efficiency to 87%
- Dim-to-off
- Dimmable with 0-10V dimmer and down to 1% at maximum output current
- UL Class P, Type HL, Class 2 Output
- OVP, SCP, OTP & Open Circuit Protection
- IP20
- 5-year warranty

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

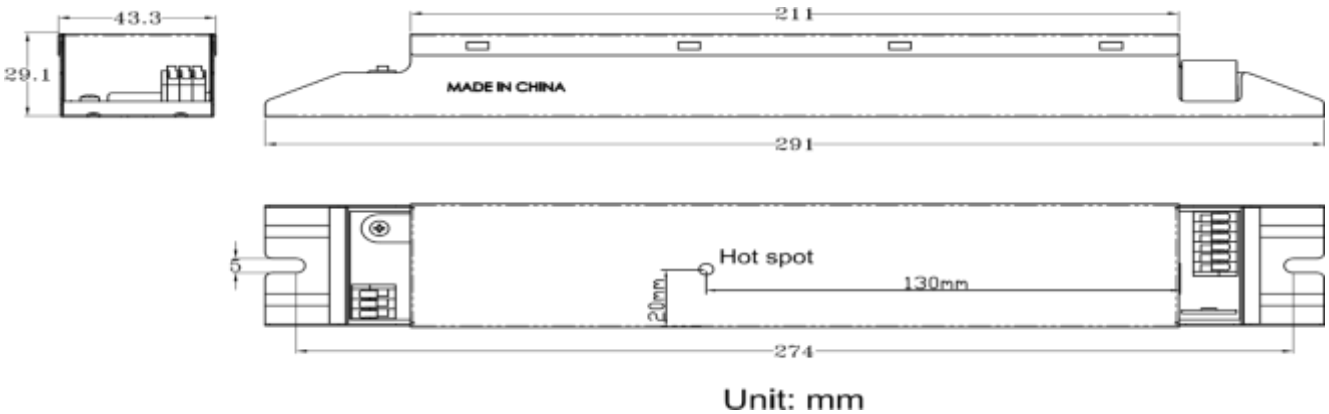
Application

- 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
LXWCP100S178ST-L	120~277Vac	100W	28-56V	590mA	1780mA	86% @120V 87% @240V 87% @277V	UL/cUL
LXWCP100S350ST-L	120~277Vac	100W	20-56V	1160mA	3500mA	85% @120V 87% @240V 87% @277V	UL/cUL

Wiring Diagram



Unit: mm

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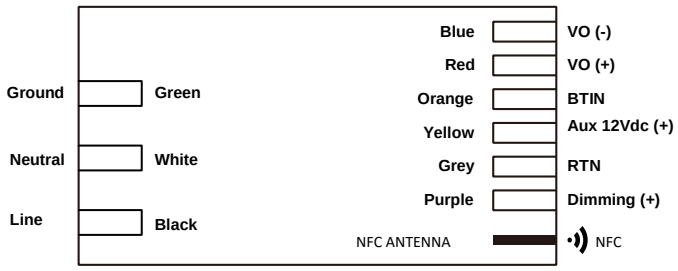
■ Wiring Diagram(Cont.)



Wire Specifications	
Input	Terminal Block: (Black White and Green)
Output	Terminal Block: VO(+)(RED) and VO(-)(BLUE)
Dimming	Terminal Block: DIM(+) (PURPLE), RTN(-)(GREY), and Aux 12 Vdc (YELLOW)
Bluetooth	Terminal Block: Bluetooth module input BTIN (ORANGE)

■ 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	± 2%
Line Regulation	± 1%
Current Tolerance	± 5% at full load condition
Turn-on Delay Time	< 0.1s at full load condition
Overshoot	< 10% at full load condition
No Load Power Consumption	< 3W
Ripple & Noise (pk-pk)	< 3%
Withstand voltage	Input to output, 2,800Vdc, 2mA
Leakage current	Maximum 0.5mA at 277Vac, 60Hz input
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.

■ Technical Data(Cont.)

Operating temperature	-20 to 50°C
Storage temperature	-40 to 85°C
Humidity	5% to 95%
MTBF	TBD
Life rating	85,000 hours at 120Vac input, 100% load and 60ºC case temperature
Maximum case Temperature	90°C
Length (L)	11.46” (291mm)
Width (W)	1.70” (43mm)
Height (H)	1.14” (29mm)
Mounting (M)	10.79” (274mm)
Packing	0.6kg/unit; 24pcs/carton; 1296pcs/pallet

■ Safety Compliance

UL/cUL	UL 8750 pending
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.

■ Near Field Communication Programmability

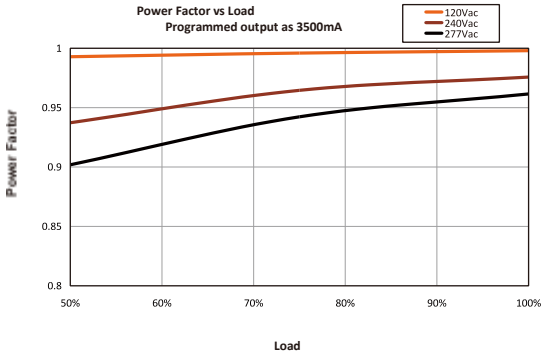
Programming Module
REF. Part# LXWLB-PROG

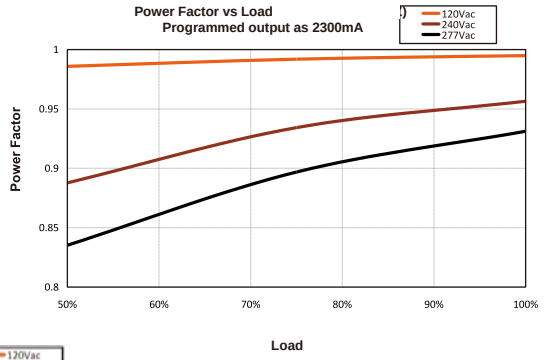
NOTES:

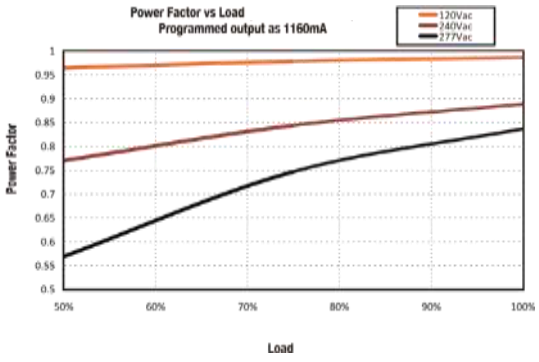
1. The Near Field Communication programming module is used to program the output current settings.
2. The programming function is a non-contact process, which is safer and more efficient compared to traditional programming methods.
3. During programming the LED Driver does not require any external power source.
4. REF. Ordering part number LXWLB-PROG (includes programming module, USB cable, and pre-loaded software).
5. Contact Autec Sales for User Guide for complete programming instructions.

■ Power Factor vs Load

LXWCP100S350ST-L

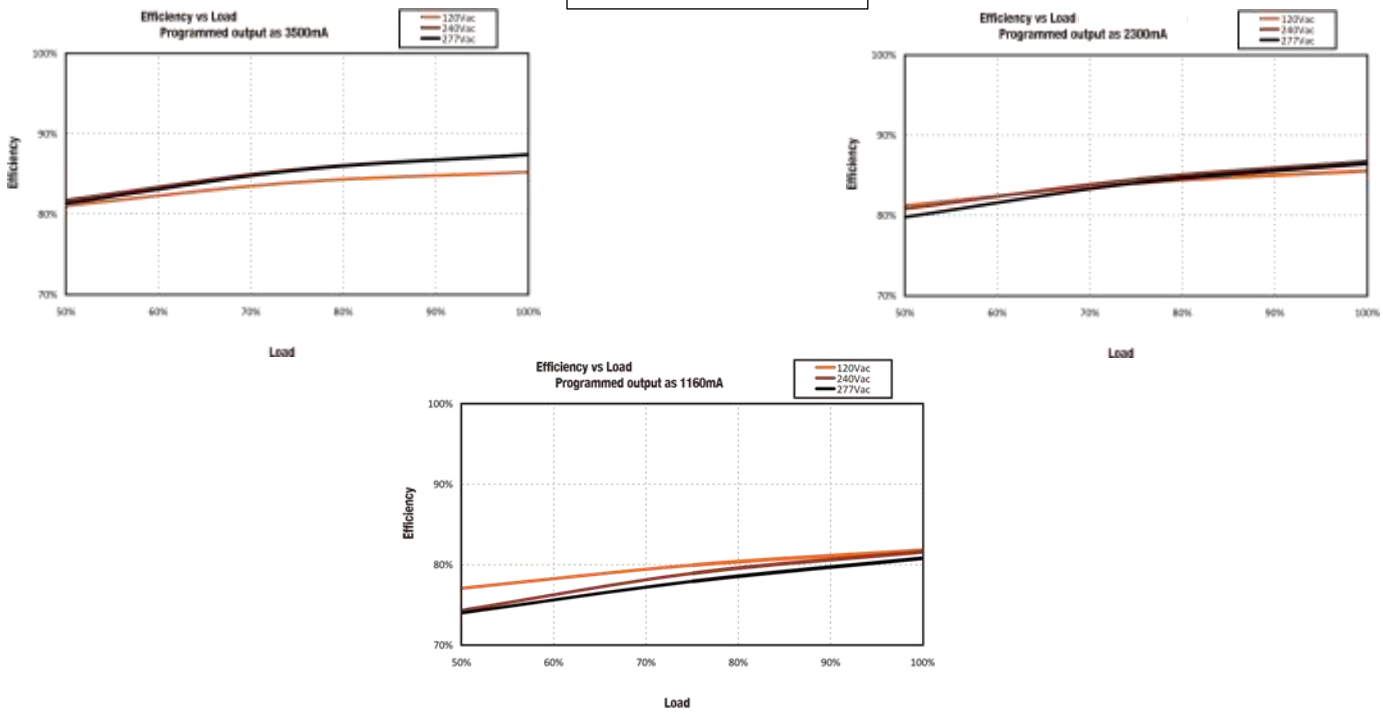




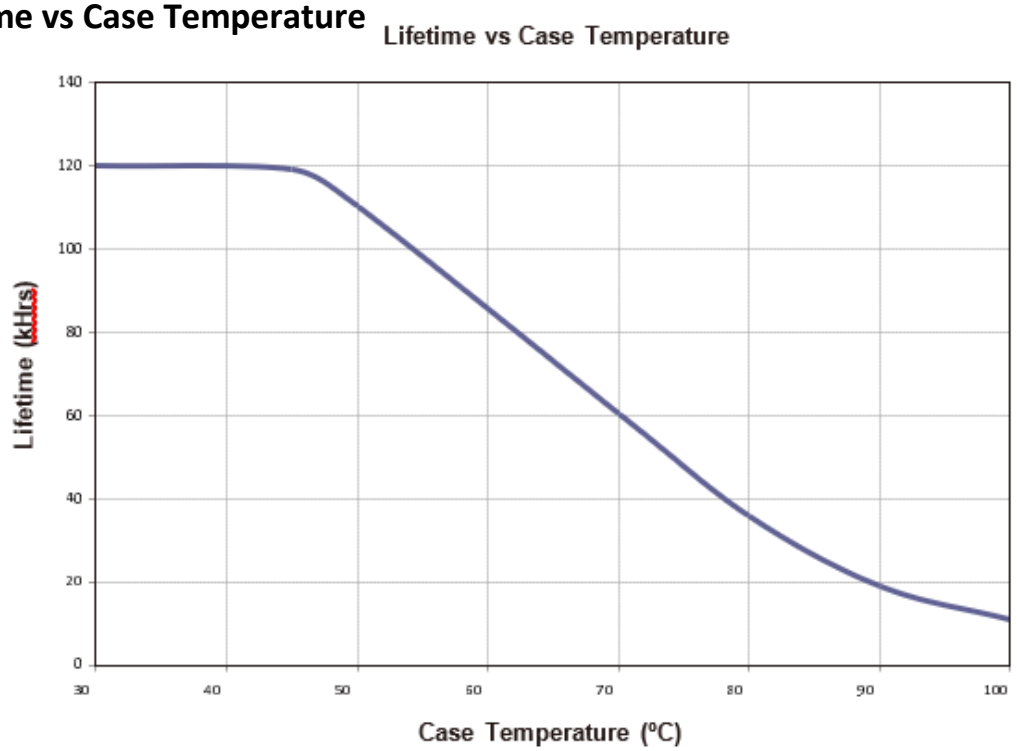


■ Efficiency vs Load

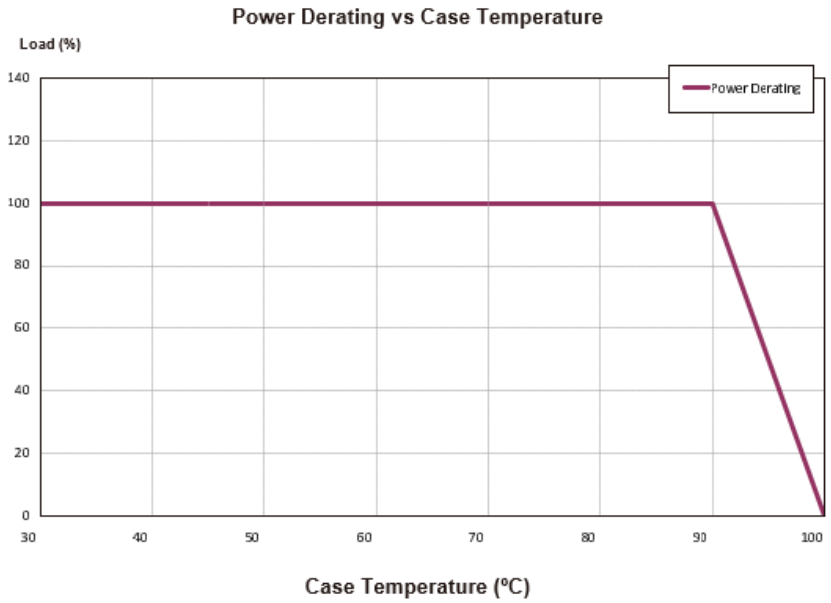
LXWCP100S350ST-L

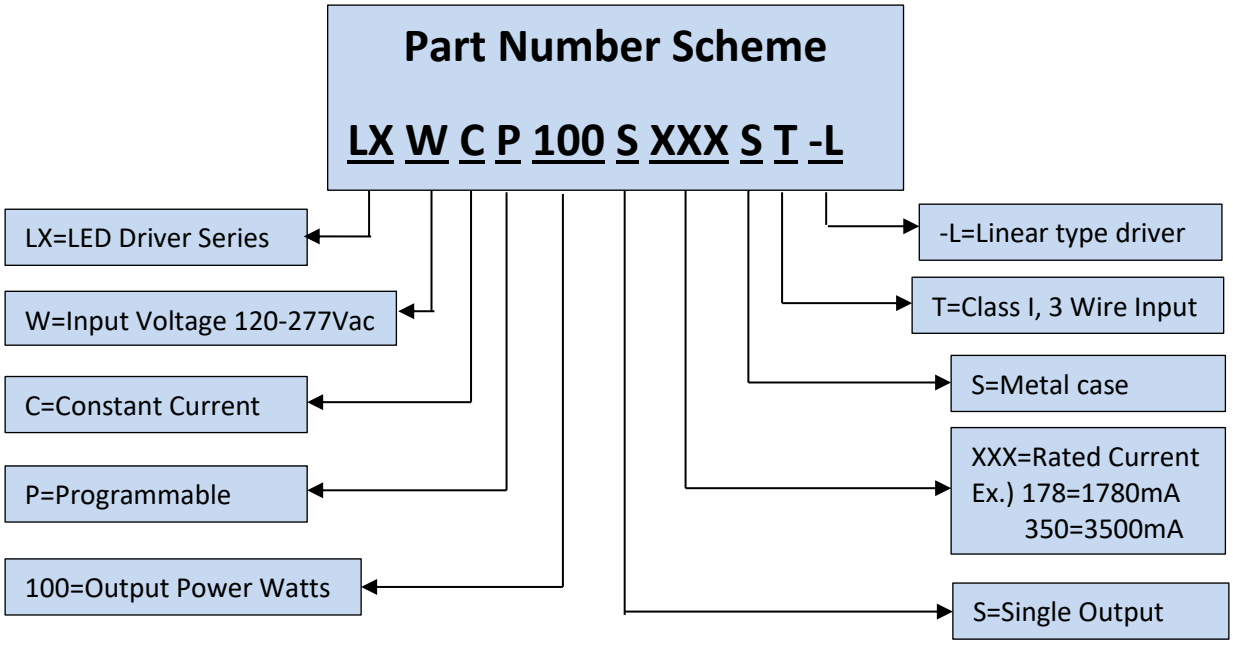


■ Lifetime vs Case Temperature



■ Power Derating Curve vs Case Temperature





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