



Constant current LED driver
Total power: 100W
Input voltage: 120~277Vac \pm 10%

Features

- Adjustable output current
- Dim-to-off
- Auxiliary power: 12Vdc, 200mA max
- Flicker free
- Dimmable with 0-10V dimmer and down to 1% at maximum output current
- 5 year warranty



Description

LXWCP100 series is a 100W constant current programmable indoor LED driver that operates from 120-277Vac input. The driver can be dimmed down to 1% with a dim-to-off mode. This is designed to provide ultimate flexibility and precise tuning of output current for luminaire manufacturers.

ELECTRICAL SPECIFICATIONS

Input voltage range:	120~277Vac \pm 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:	\pm 2%
Line Regulation:	\pm 1%
Current Tolerance:	\pm 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 exceed specified output voltage and will auto recover after the fault mode is removed. Over current protection: Hiccup mode. Protection will trigger when load current exceed 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.

ENVIRONMENTAL SPECIFICATIONS

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 60°C case temperature
Maximum case Temperature :	90°C

SAFETY AND EMC 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

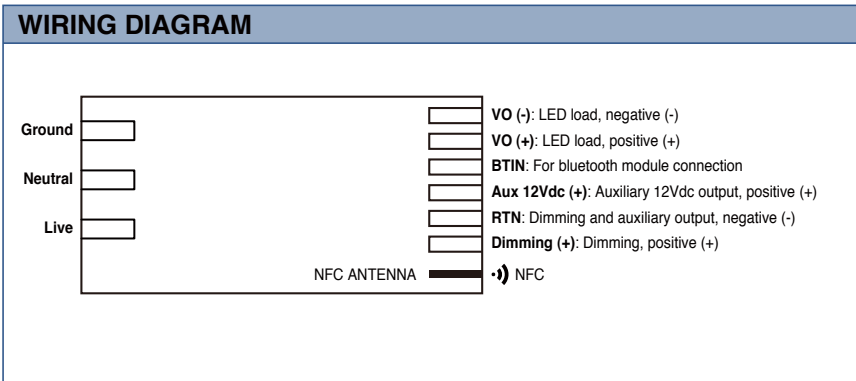
PRODUCT SPECIFICATIONS										
Model Number	Max output power	Output Current	Output Voltage	OCV	Efficiency at 120V (Typ.)	Efficiency at 240V (Typ.)	Efficiency at 277V (Typ.)	Remote mounting distance (#18 AWG)	Class 2	
									US	Canada
LXWCD100S178ST-L	100W	590mA ~ 1780mA	28-56V	59V	86%	87%	87%	21 ft	✓	✓
LXWCP100S350ST-L		1160mA ~ 3500mA	14-28V	30V	85%	87%	87%	10 ft	✓	✓

PHYSICAL DIMENSIONS	
Length (L):	11.46" (291mm)
Width (W):	1.70" (43mm)
Height (H):	1.14" (29mm)
Mounting (M):	10.79" (274mm)

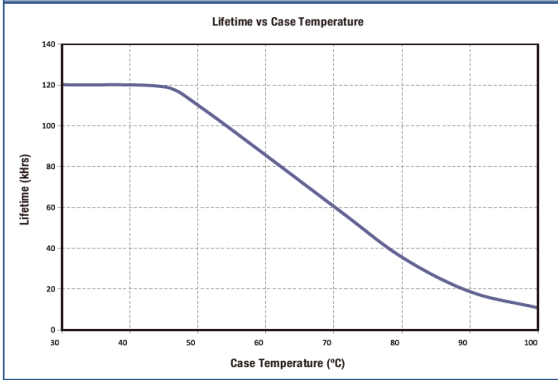
PACKAGING	
0.6kg / unit ; 24pcs / carton ; 1296pcs / pallet	
Carton size:	300 x 290 x 145 mm
Carton weight:	15 kg
Case Material:	Metal

WIRE SPECIFICATIONS	
Input:	Terminal block
Output:	Terminal block
Dimming:	Terminal block

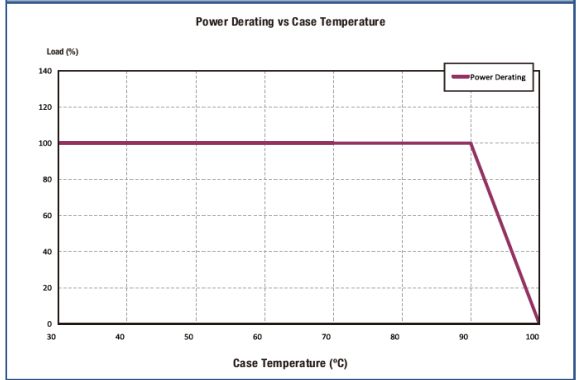
Unit: mm



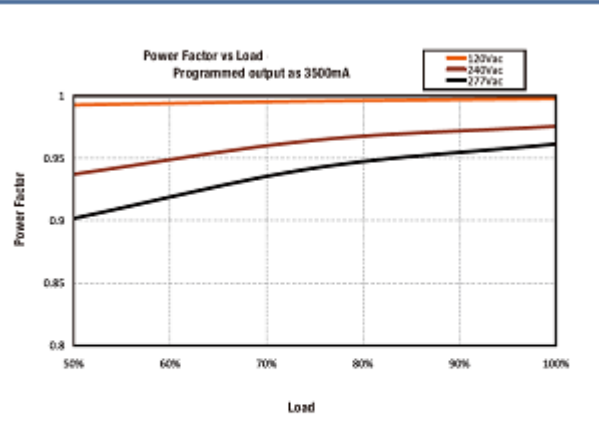
LIFETIME vs CASE TEMPERATURE



POWER DERATING vs CASE TEMPERATURE



POWER FACTOR vs LOAD



EFFICIENCY vs LOAD

