

Project Name:	
Туре:	

ESL1048 iPOP

High Power Constant Current LED Driver | 48 Watts Max.

PRODUCT FEATURE

- Universal Input range from 110VAC~304VAC, 50/60Hz
- Linear design and compact size maximizes design flexibility.
- Size: 11.80" (L) x 1.31" (W) x 1.06" (H)
- Fully potted, suitable for dry and damp location applications
- Standard 0-10V dimming; compatible with fluorescent dimmers
- Intelligent Window® GUI interface for programming
- Output current and voltage programmable maximize performance



SPECIFICATIONS

INPUT RANGE: 100 ~ 277VAC

POWER FACTOR: > 0.92 at 65% to 100% load, 115VAC or 230VAC

INPUT CURRENT: 0.6 Amps max at 115VAC

OUTPUT CURRENT REGULATION: ±5%

PROTECTION: OCP, SCP, OLP - Auto Recovery
DIMMING METHOD: 0-10V dimmer/ Fluorescent dimmer

HOLD UP TIME: Half cycle min. at 120VAC and 80% rated load

FREQUENCY: 47 to 63Hz

INRUSH CURRENT: 50.0 Amps max. at 230VAC, cold start 25°C

EFFICIENCY: 83% Typical full load

MAXIMUM POWER: 48W LEAKAGE CURRENT: 300uA typ.

DIMENSION: 11.80" x 1.31 x 1.06 (LxWxH)

REGULATION COMPLIANCE: UL8750 or EN61347, EN55015, EN61547

WARRANTY

See <u>Limited Warranty Policy</u> for more additional information

ENVIRONMENTAL

OPERATING TEMPERATURE: STORAGE TEMPERATURE: HUMIDITY (Non-Condensing):

COOLING:

VIBRATION FREQUENCY:

MTBF:

Convection 5 to 50Hz >100,000 hours at full load

-30 to +50°C. Tc: 80°C

and 25°C ambient conditions

(MIL-217F)

-40 to +85°C

5% to 95%

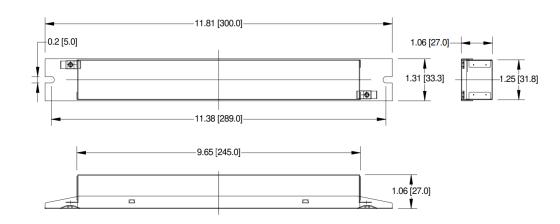
MODEL SELECTION

MODEL	OUTPUT CHARACTERISTICS					
	DIMMING	DIMMING RANGE	OUTPUT RANGE (mA)	V RANGE (DC)	MAX. WATTS	
ESL1048-24-C2500 iPOP®	1 – 10V	8 – 100%	2500 – 520	14 – 15	48	
ESL1048-36-C1600 iPOP®	1 – 10V	8 – 100%	1660 – 350	24 - 36	48	
ESL1048-48-C1250 iPOP®	1 – 10V	8 – 100%	1200 – 260	30 – 50	48	
ESL1048-72-C0830 iPOP®	1 – 10V	8 – 100%	830 – 350	40 – 72	48	

MECHANICAL SPECIFICATION

NOTE 1: The combination of output current and voltage cannot exceed maximum rated power.

NOTE 2: It is recommended to keep a minumum of 65% of rated load to maintain electrical characteristics.



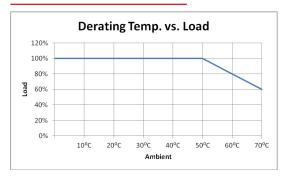


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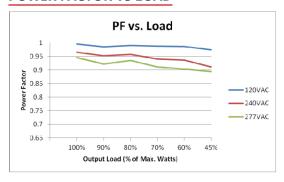
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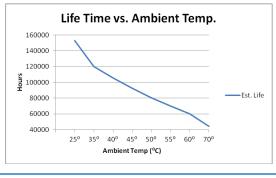
DE-RATING TEMP. VS LOAD



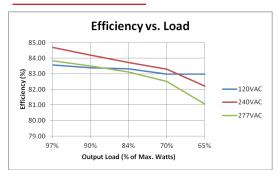
POWER FACTOR VS LOAD



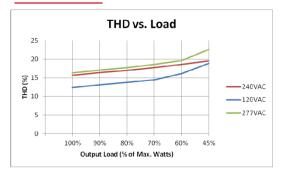
LIFE TIME VS AMBIENT TEMP.



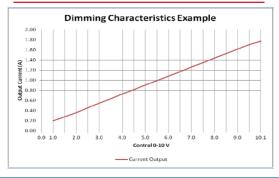
EFFICIENCY VS LOAD



THD VS LOAD



DIMMING CHARACTERISTICS EXAMPLE



DIMMING WIRING DIAGRAM

For genral operation and networking purposes where an OFF mode condition is required, our LED Driver dimming models (ESS & ESL) operate with 1-10V control input, where 1V is minimum dim and less than 1V is OFF.

