

ESL1048 Series

High Power Constant Current LED Driver

Total Power	48 Watts max.
Input Voltages	120 ~ 277VAC
Number of Outputs	One

Product Specifications

ANZ#: Z183e, June 20, 2012

SPECIAL FEATURES

- 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
- UL8750 and CE compliant
- Wide selection of pre-adjusted C/C outputs

ENVIRONMENTAL

Operating temperature:	-20 to +50 ° C, Tc: 80 ° C
Storage temperature:	-40 to +85 ° C
Humidity (Non-Condensing):	5% to 95%
Cooling:	Convection
Vibration Frequency:	5 to 50 Hz
MTBF:	>100,000 Hours at full load and 25°C ambient conditions (MIL-217F)



Picture shown above is not to scale

SPECIFICATIONS :

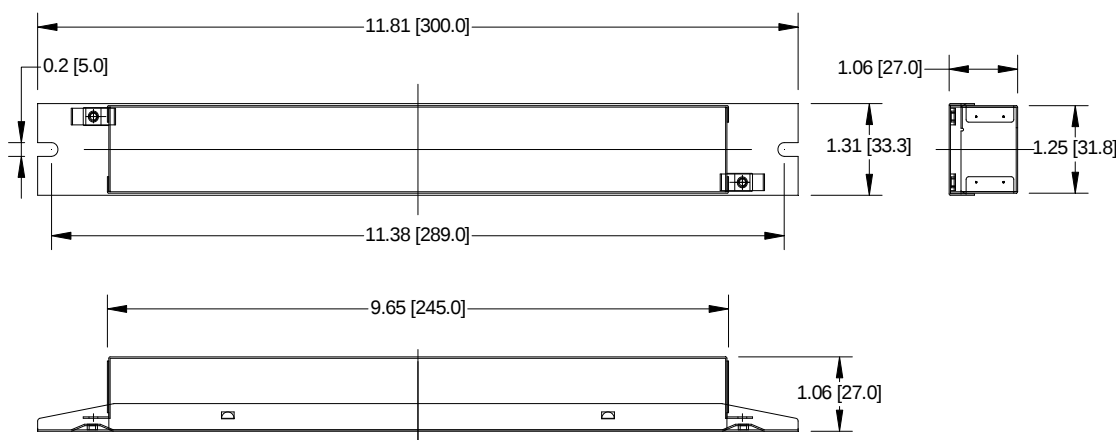
Input Range : 100 ~ 277VAC	Frequency : 47 to 63Hz
Power Factor: > 0.92 at 65% to 100% load, 115VAC or 230VAC	Inrush Current : 50.0 Amps max. at 230VAC, cold start 25°C
Input Current : 0.6 Amps max. at 115VAC	Efficiency : 83% Typical
Output Current Regulation : ±5%	Maximum Power : 48W
Protection : OCP, SCP, OLP – Auto Recovery	Leakage Current : 300uA typ.
Dimming method : 0-10V dimmer / fluorescent dimmer	Dimension: 11.80" (L) x 1.31" (W) x 1.06" (H)
Hold up time: Half cycle min. at 120VAC and 80% rated load	Regulation Compliance: UL8750 or EN61347, EN55015, EN61547

MODEL SELECTION :

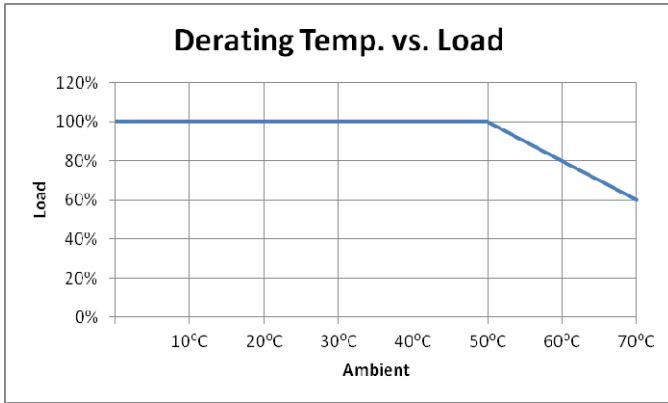
Model Number	Constant Voltage Mode			Model Number	Constant Current Mode		
	V (DC)	A (mA)	Max. W		A (mA)	V (DC)	Max. W
ESL1048-24	24, ±5%	2000	48	ESL1048-24-C2500	2500 ~ 2000	14 ~ 25	48
ESL1048-36	36, ±5%	1330	48	ESL1048-36-C1660	1660 ~ 1330	24 ~ 36	48
ESL1048-48	48, ±5%	960	48	ESL1048-48-C1200	1200 ~ 960	30 ~ 50	48
Note: Constant Voltage models are not dimmable				ESL1048-72-C0830	830 ~ 660	40 ~ 72	48

MECHANICAL SPECIFICATION : ESL1048-XX-YYY

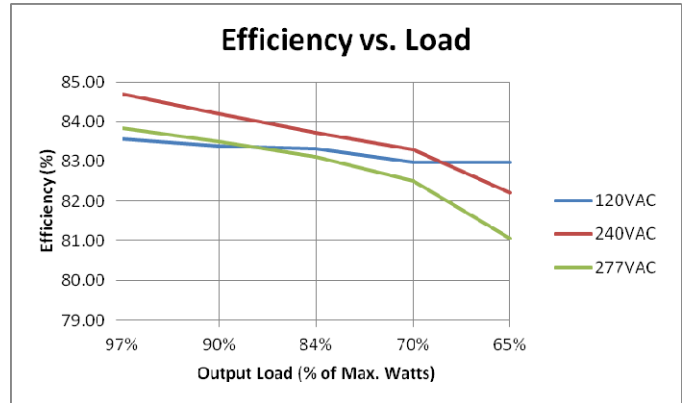
XX = Maximum Forward Voltage (Vf)



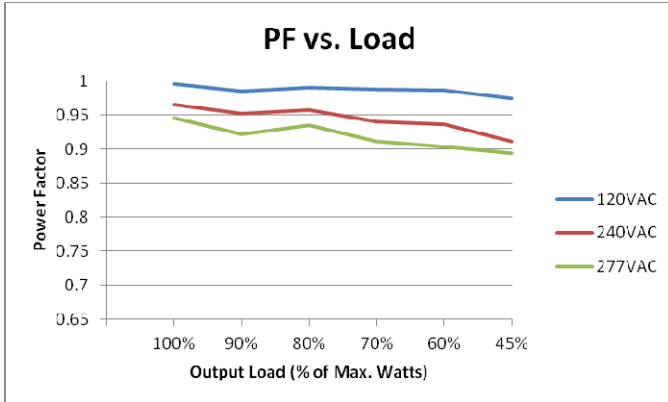
De-rating Temp. vs. Load



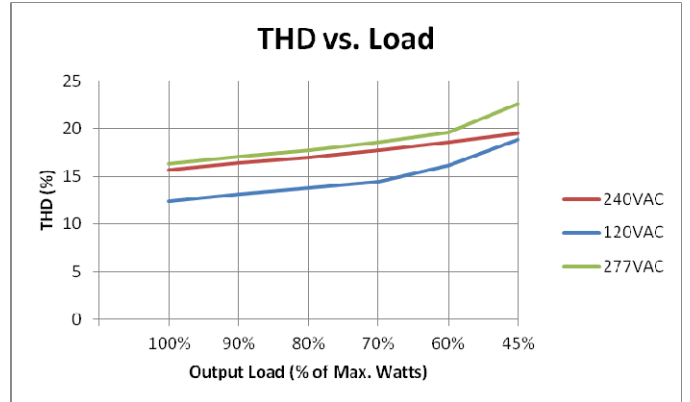
Efficiency vs. Load



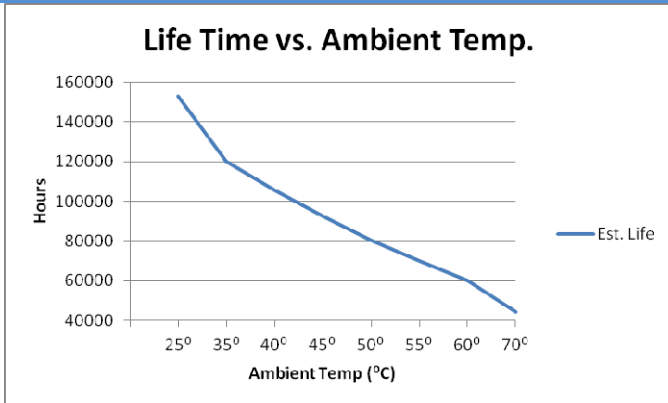
Power Factor vs. Load



THD vs. Load



Life Time vs. Ambient Temp.



Dimming Wiring Diagram

