

ESL1012 Series

Product Specifications

ANZ#: Z180c, June 22, 2012

High Power Constant Current LED Driver	
Total Power	12 Watts max.
Input Voltages	110VAC or 230VAC
Number of Outputs	One

SPECIAL FEATURES

- Compact size maximizes design flexibility.
- Φ 2.59" (R) x 1.05" (H)
- Fully potted, suitable for dry and damp location applications
- Phase dimmable, compatible with Standard Triac and Electronics Low Voltage Dimmers
- UL8750 Class 2 (110V) or CE compliant (230V)
- Wide selection of pre-adjusted C/C outputs

ENVIRONMENTAL

Operating temperature:	-20 to +50 °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 : 110VAC or 220VAC / 0.3~0.15A / 47~63Hz	Power Factor: > 0.92 at full load, 115VAC or 230VAC
DC Output Range : Refer to Model selection table	Operation Temp. : -20°C ~ +50°C , Tc : 80 °C
Efficiency : 82% Typical	Storage Temp. : -40°C ~ +85°C
Output Current Regulation : \pm 5%	MTBF(@25°C) : >100,000 Hours, MIL-217F
Protection : OCP, SCP, OVP – Auto Recovery	Regulation Compliance: UL8750 or EN61347, EN55015, EN61547
Dimming method : AC Phase - leading or trailing edge	Dimension: Φ 2.59" (R) x 1.05" (H)

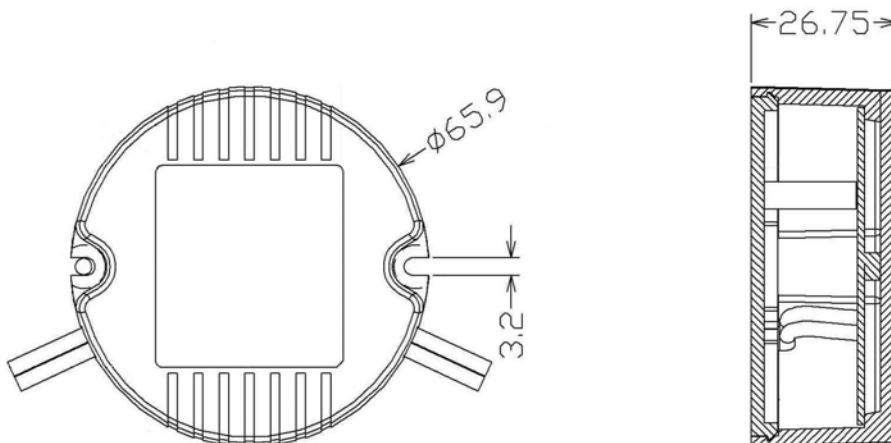
MODEL SELECTION :

Model Number (110VAC)	DC Output (Vf)	Max. Output (mA/Watts)	Model Number (230VAC)	DC Output (Vf)	Max. Output (mA/Watts)
ESL1012-U12-1000	7 – 12 VDC	700 - 1300 / 12.0	ESL1012-E12-1000	7 – 12 VDC	700 - 1300 / 12.0
ESL1012-U14-1000	7 – 14 VDC	700 - 1000 / 12.0	ESL1012-E14-1000	7 – 14 VDC	700 - 1000 / 12.0
ESL1012-U18-0700	12 – 18 VDC	500 - 850 / 12.0	ESL1012-E18-0700	12 – 18 VDC	500 - 850 / 12.0
ESL1012-U36-0350	24 – 36 VDC	350 - 500 / 12.0	ESL1012-E36-0350	24 – 36 VDC	350 - 500 / 12.0

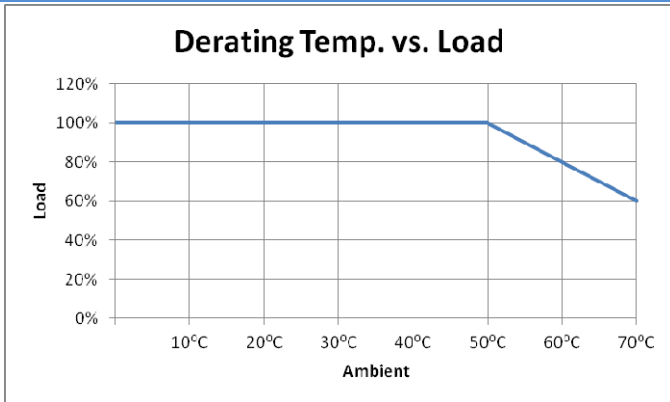
Notes: "U" UL certified only ; "E" CE certified only

MECHANICAL SPECIFICATION : ESL1012-XYX-ZZZZ

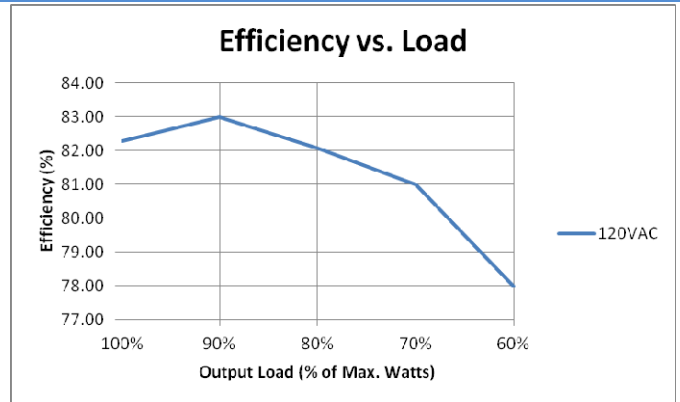
"U": 110VAC or "E": 230VAC input



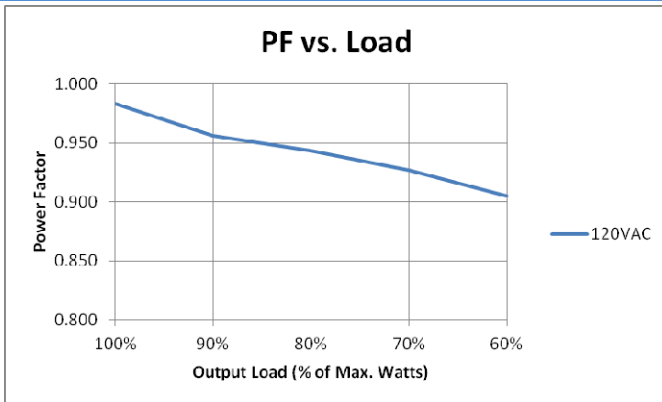
De-rating Temp. vs. Load



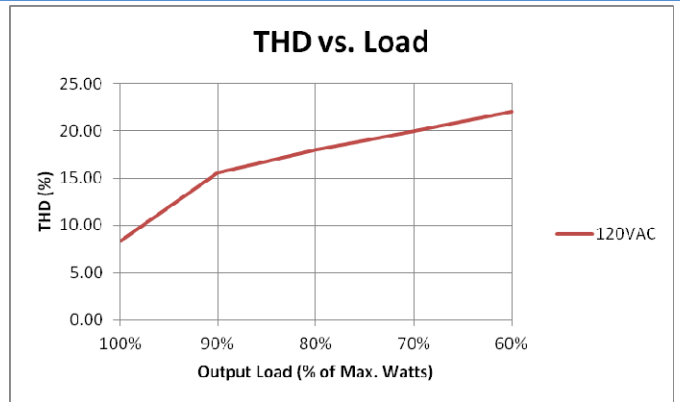
Efficiency vs. Load



Power Factor vs. Load



THD vs. Load



Life Time vs. Ambient Temp.

