

ESS1025 iPOP®

Product Specifications

Intelligent Programmable Output Power Solutions

Total Power	25 Watts max.
Input Voltages	120 ~ 240VAC, 277VAC
Number of Outputs	One

ANZ#: Z204c, September 24, 2013

SPECIAL FEATURES

- Universal Input range from 110VAC~304VAC, 50/60Hz
- Stud-mount and Tab-mount design maximize design flexibility.
- Size: 4.25" (L) x 3.00" (W) x 1.18" (H)
- 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

ENVIRONMENTAL

Operating temperature:	-30 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)



The picture shown is not to scale

SPECIFICATIONS :

Input Range : 100 ~ 264VAC; 277VAC	Frequency : 47 to 63Hz
Power Factor: > 0.92 at full load, 115VAC or 230VAC	Inrush Current : 20.0 Amps max. at 230VAC, cold start 25°C
Input Current : 0.4 Amps max. at 115VAC	Efficiency : 83% Typical full load
Output Current Regulation : ±5%	Maximum Power : 25W
Protection : OCP, SCP, OLP – Auto Recovery	Leakage Current : 300uA typ.
Dimming method : 0-10V dimmer / fluorescent dimmer	Dimension: 108mm (L) x 76mm (W) x 30mm (H)
Hold up time: Half cycle min. at 120VAC and 80% rated load	Regulation Compliance: UL8750 or EN61347, EN55015, EN61547

MODEL SELECTION :

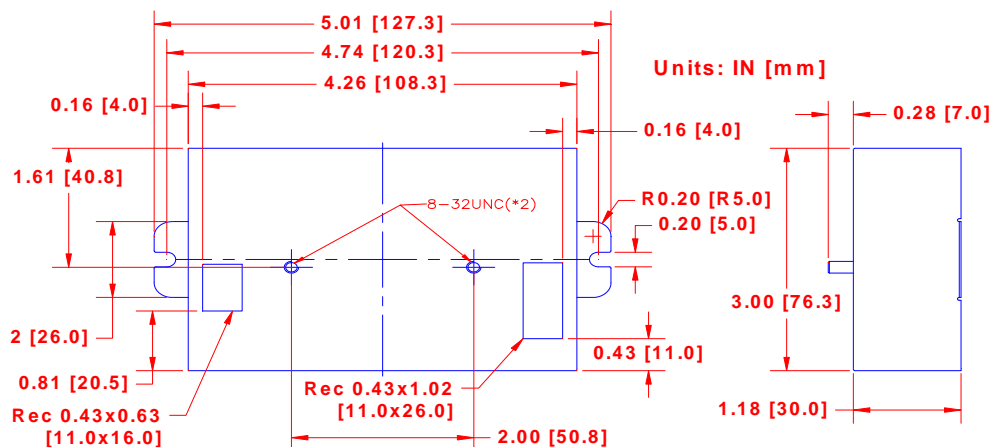
Model Number	Output Characteristics				
	Dimming	Dimming Range	Output Range (mA)	V Range (DC)	Max. W ^{Note}
ESS1025-24-C1400 iPOP®	1-10V	8-100%	1400 ~ 520	14 – 25	25
ESS1025-36-C1000 iPOP®	1-10V	8-100%	1000 ~ 350	24 – 36	25
ESS1025-48-C0750 iPOP®	1-10V	8-100%	750 ~ 260	30 – 50	25
ESS1025-72-C0500 iPOP®	1-10C	8-100%	500 ~ 175	40 – 72	25

MECHANICAL SPECIFICATION : ESS1025-XX-YYY

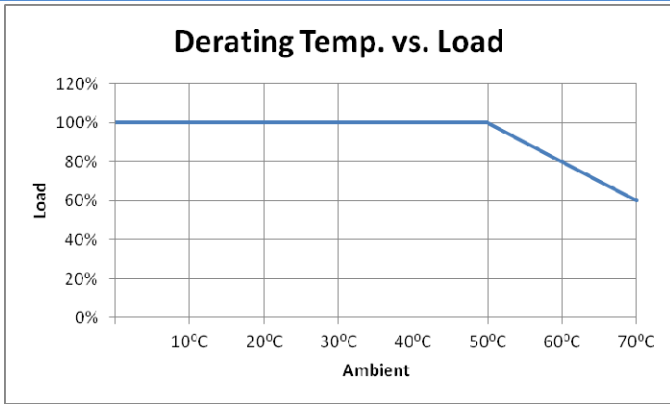
XX = Maximum Forward Voltage (Vf)
 YYY = Constant Current Output (If)
 AC input terminal block
 DC output terminal block
 0-10V dimming control terminal block

Note:

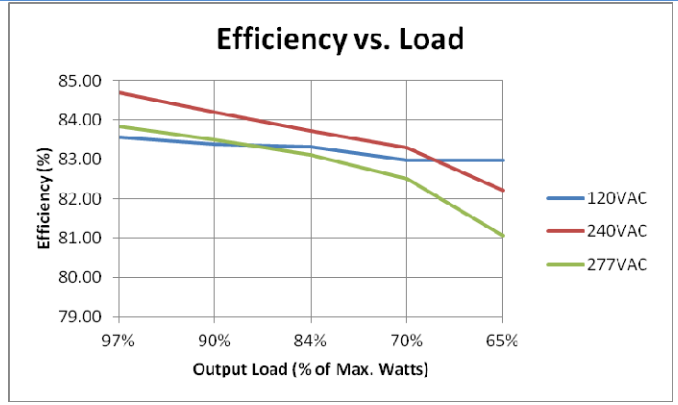
1. The combination of output current and voltage cannot exceed maximum rated power.
2. It is recommended to keep a minimum of 65% of rated load to maintain electrical characteristics.



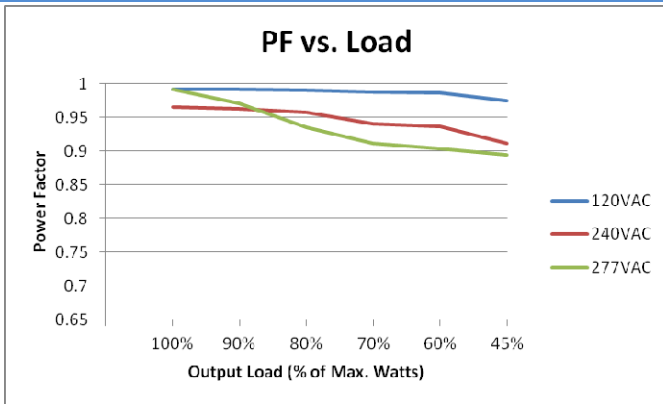
De-rating Temp. vs. Load



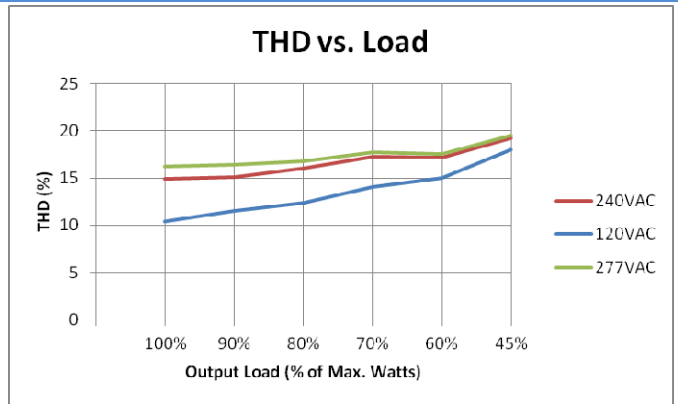
Efficiency vs. Load



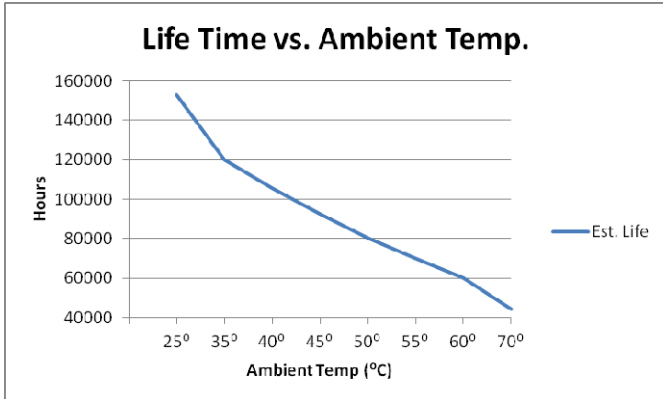
Power Factor vs. Load



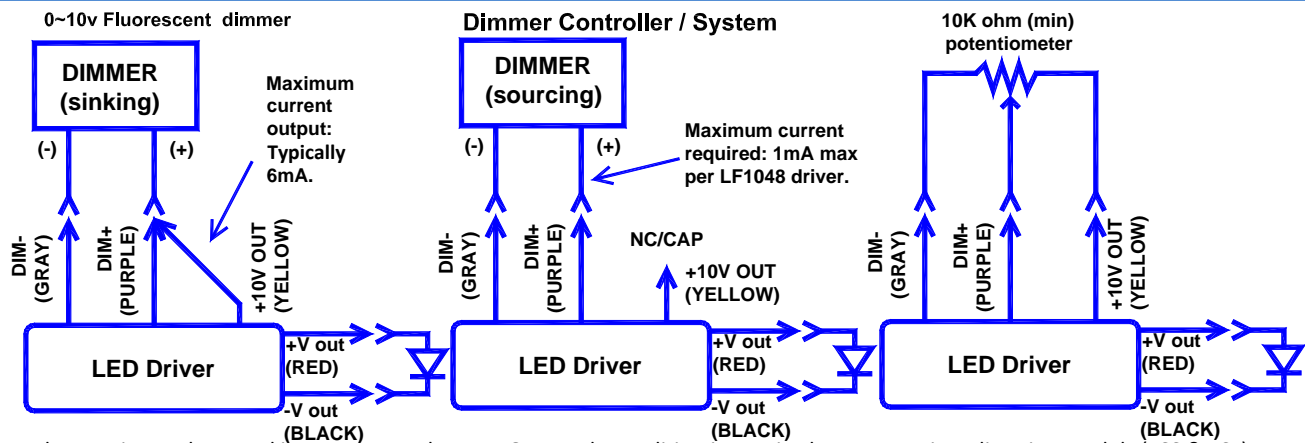
THD vs. Load



Life Time vs. Ambient Temp.



Dimming Wiring Diagram



For general 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 input is minimum dim and less than 1V is OFF.