Universal Dimmable LED Driver

Model # SE-CVMD-12V60W Datasheet

Customer Name | Project Name | Part Number

Description

The SIRS-E® Universal Dimmable LED Driver provides steady low voltage power to LED lighting installations. The energy-efficient LED Driver is designed using professional, high-performance components that provide stable 0% to 100% dimming free of any “pop-on” or “drop-off”. Plug-in or hardwire with detachable AC power cord. Suitable for both dry and damp locations. Includes detachable AC power cord and removable endcaps.

Product Specifications

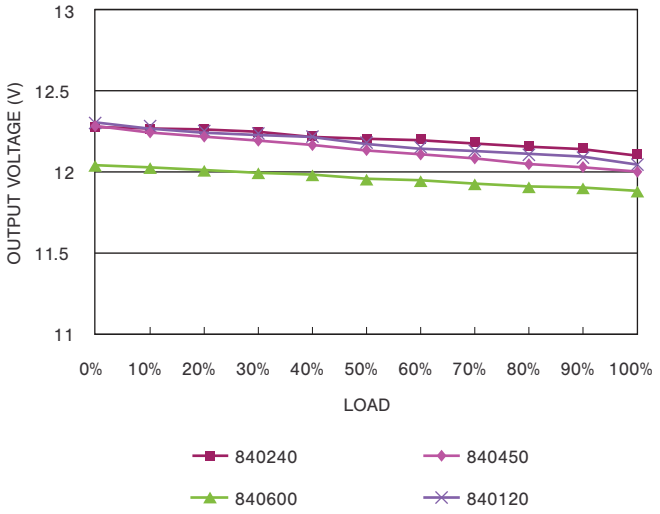
Dimming Options	TRIAC / Phase Cut, MCV, ELV & PWM
Load Requirement	3W - 60W
Dimming Range (Standard Triac)	10% - 100%
Dimming Range (Lutron CL)	0% - 100%
Rated OWM Dimming Frequency	600Hz
DC Voltage	12 V DC [2]
Rated Current	5A
Related Power	60W
Voltage Tolerance	+/-0.5V
Start-up Time (Typ.)	500ms
Voltage Range	100 - 130VAC
Frequency Range	50 - 60Hz
Efficiency (Typ.)	85%
AC Current (Typ.)	1.1A
Inrush Current (Typ.)	15A / 120VAC
Leakage Current	<0.5mA/120VAC
Over Current	Huvvup mode, auto-recovery upon removal of fault condition

Short Circuit	Huvvup mode, auto-recovery upon removal of fault condition
Over Temperature	Shut down, auto-recovery
Ta	4°F (-20°C) to 104°F (40°C)
Working Humidity	20 - 90% Relative Humidity, non-condensing
Storage Temp. & RH	-40°F (-40°C) to 176°F (80°C), 10 - 95% Relative Humidity
Vibration	10 - 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes
Safety Standards	UL Std. 1310 & 8750, Cert. to CAN/CSA Std. C22.2 No. 223-M91 & C22.2 No. 250.13; Class 2 LED power supply, ELT Listed for dry & damp location use
Withstand Voltage	I/P - O/P: 3.75KVAC
Isolation Resistance	I/P - O/P: 100M Ohms / 500VDC / 25°C / 70% RH
EMC Emission	Compliance to FCC Part 15B (>=50% loading)
MTBF	284K hrs min. (25°C, MIL-HDBK-217F)
Cooling	Free Air Convection
Life Time*	30,000 hours
Case	Fully isolated polycarbonate plastic case with built-in terminal block for direct-wire conactions
Dimensions	7.09” L x 2.4” W x 1.38” H (180mm L x 60mm W x 35mm H)
Warranty	3 Year

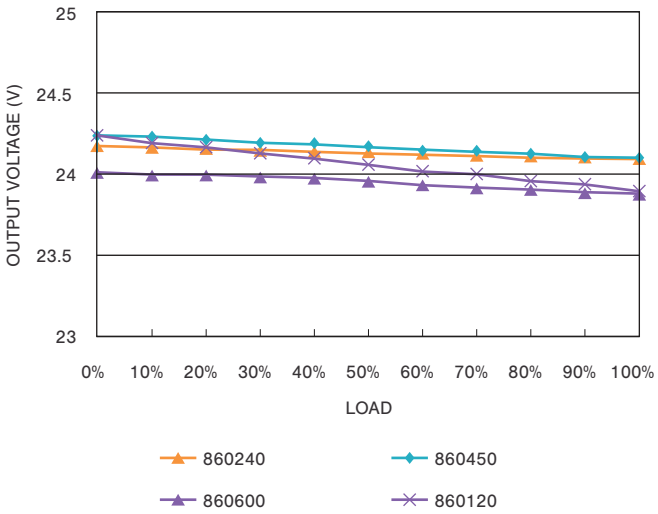
**Note: Life time tested under adverse operating conditions with ambient air temperature at 104°F and under full wattage load, failure rate <10%.*

3307 West Street Rosenberg, TX 77471, USA - (281) 324-0908

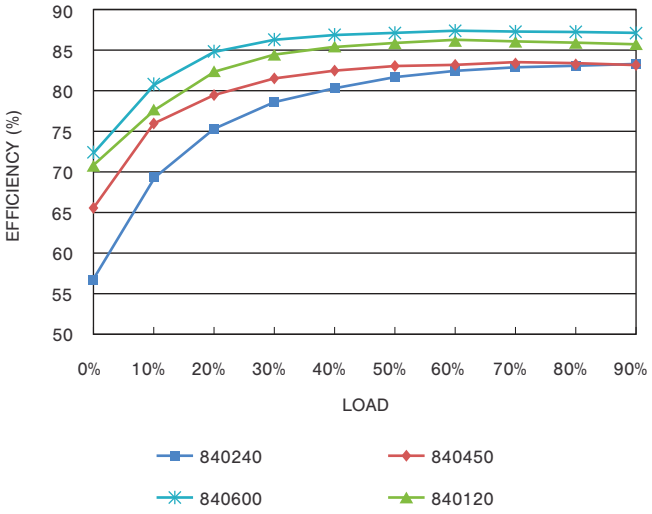
OUTPUT VOLTAGE VS LOAD (1)



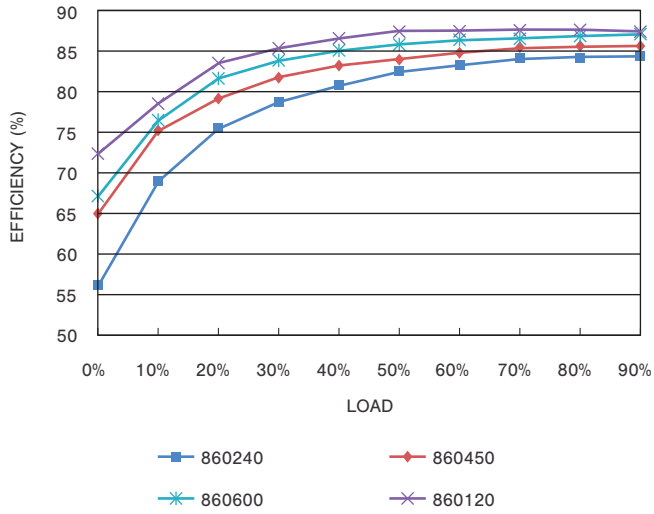
OUTPUT VOLTAGE VS LOAD (2)



EFFICIENCY VS LOAD (1)



EFFICIENCY VS LOAD (2)



About Us

SIRS-E®
LED LIGHTING AND DMX CONTROL

SIRS-E: {semiconductor • illumination • research • solutions}

In 2004, SIRS-E® initiated research into the application of high-powered LED components for use in both direct lighting fixtures and LED strips.

In 2005, SIRS-E® developed the RGB HPL01, a 12-watt lighting fixture with an efficiency of 60 lumens per watt. This RGB fixture was controlled via DMX using LumiLEDS, which was one of the first high-powered LEDs eventually acquired by Philips. As part of our early research solutions, we also developed and tested various LED strips designed for direct RGB lighting and effects applications. This marked the inception of what is now known as SIRS-Electronics.

3307 West Street Rosenberg, TX 77471, USA - (281) 324-0908