

Customer Name  Project Name  Part Number



## Description

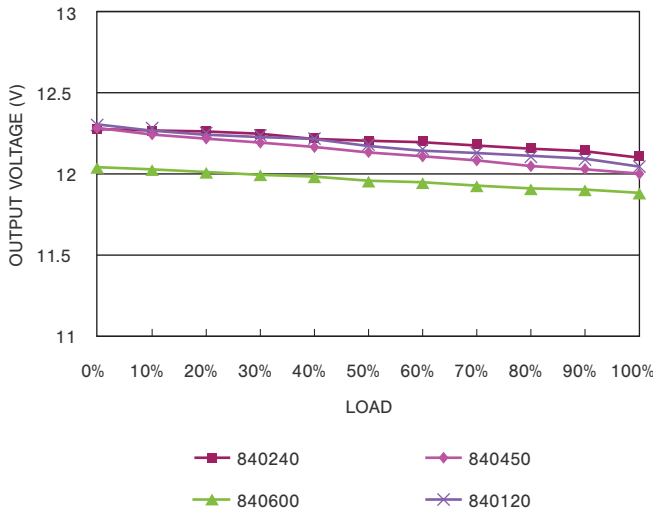
The SIRS-E® Universal Dimmable LED Driver provides steady low voltage power to LED lighting installations. The energy-efficient LED Driver is designed using professional, high-performance components that provide stable 0% to 100% dimming free of any “pop-on” or “drop-off”. Plug-in or hardwire with detachable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

## Product Specifications

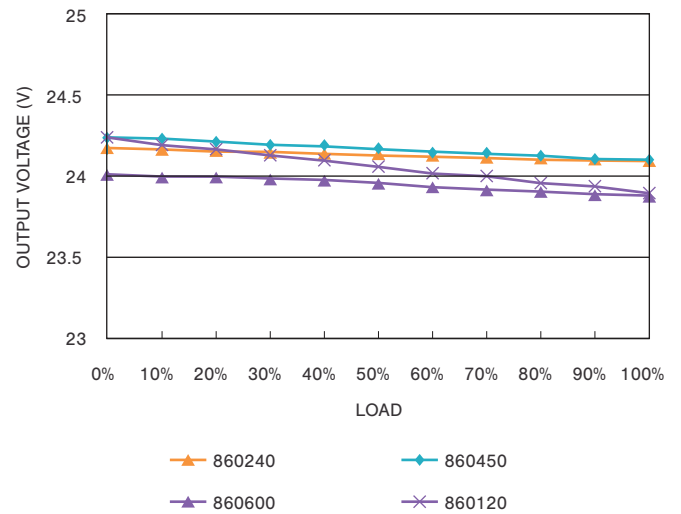
<b>Dimming Options</b>	TRIAC / Phase Cut, MCV, ELV & PWM	<b>Short Circuit</b>	Huvvup mode, auto-recovery upon removal of fault condition
<b>Load Requirement</b>	3W - 60W	<b>Over Temperature</b>	Shut down, auto-recovery
<b>Dimming Range (Standard Triac)</b>	10% - 100%	<b>Ta</b>	4°F (-20°C) to 104°F (40°C)
<b>Dimming Range (Lutron CL)</b>	0% - 100%	<b>Working Humidity</b>	20 - 90% Relative Humidity, non-condensing
<b>Rated OWM Dimming Frequency</b>	600Hz	<b>Storage Temp. &amp; RH</b>	-40°F (-40°C) to 176°F (80°C), 10 - 95% Relative Humidity
<b>DC Voltage</b>	12 V DC <sup>2</sup>	<b>Vibration</b>	10 - 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes
<b>Rated Current</b>	5A	<b>Safety Standards</b>	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
<b>Related Power</b>	60W	<b>Withstand Voltage</b>	I/P - O/P: 3.75KVAC
<b>Voltage Tolerance</b>	+/-0.5V	<b>Isolation Resistance</b>	I/P - O/P: 100M Ohms / 500VDC / 25°C / 70% RH
<b>Start-up Time (Typ.)</b>	500ms	<b>EMC Emission</b>	Compliance to FCC Part 15B (>=50% loading)
<b>Voltage Range</b>	100 - 130VAC	<b>MTBF</b>	284K hrs min. (25°C, MIL-HDBK-217F)
<b>Frequency Range</b>	50 - 60Hz	<b>Cooling</b>	Free Air Convection
<b>Efficiency (Typ.)</b>	85%	<b>Life Time*</b>	30,000 hours
<b>AC Current (Typ.)</b>	1.1A	<b>Case</b>	Fully isolated polycarbonate plastic case with built-in terminal block for direct-wire cononctions
<b>Inrush Current (Typ.)</b>	15A / 120VAC	<b>Dimensions</b>	7.09" L x 2.4" W x 1.38" H (180mm L x 60mm W x 35mm H)
<b>Leakage Current</b>	<0.5mA/120VAC	<b>Warranty</b>	3 Year
<b>Over Current</b>	Huvvup mode, auto-recovery upon removal of fault condition		

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

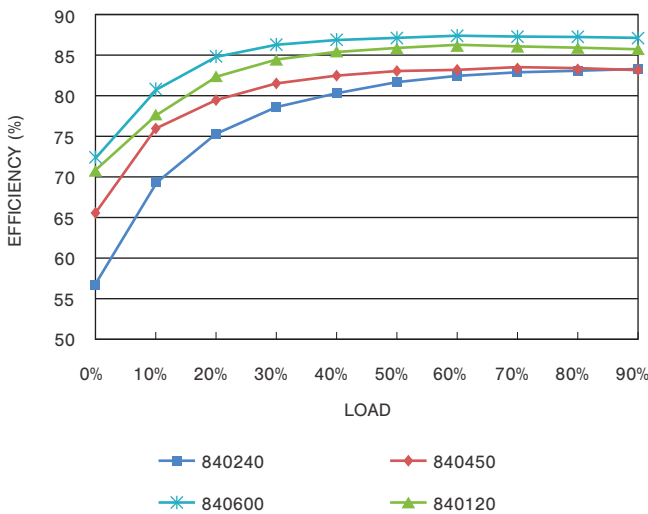
### OUTPUT VOLTAGE VS LOAD (1)



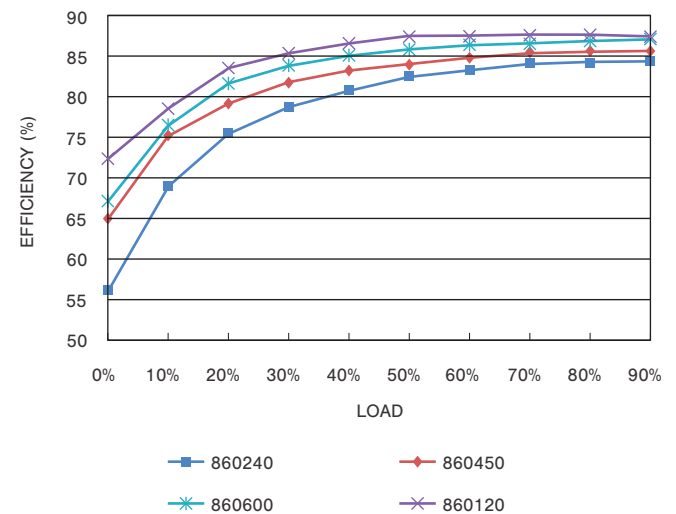
### OUTPUT VOLTAGE VS LOAD (2)



### EFFICIENCY VS LOAD (1)



### EFFICIENCY VS LOAD (2)



## About Us



**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.