

Customer Name Project Name Part Number



Description

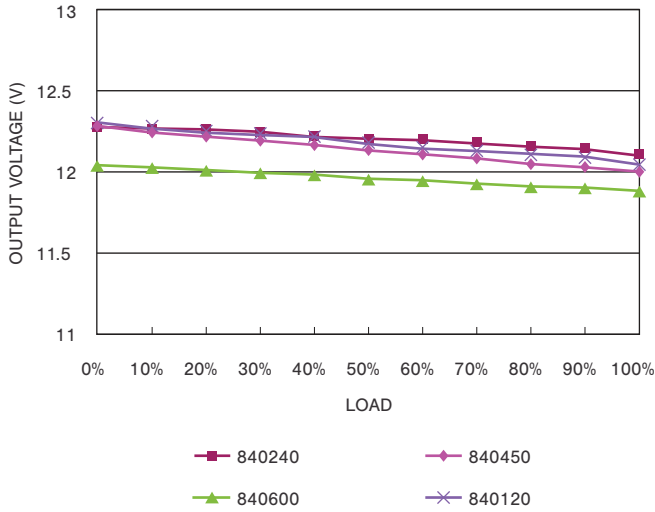
The SIRS-E® Universal Dimmable LED Driver provides steady low voltage power to LED lighting installations. The energy-efficient LED Driver is designed using professional, high-performance components that provide stable 0% to 100% dimming free of any “pop-on” or “drop-off”. Plug-in or hardwire with detachable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

Product Specifications

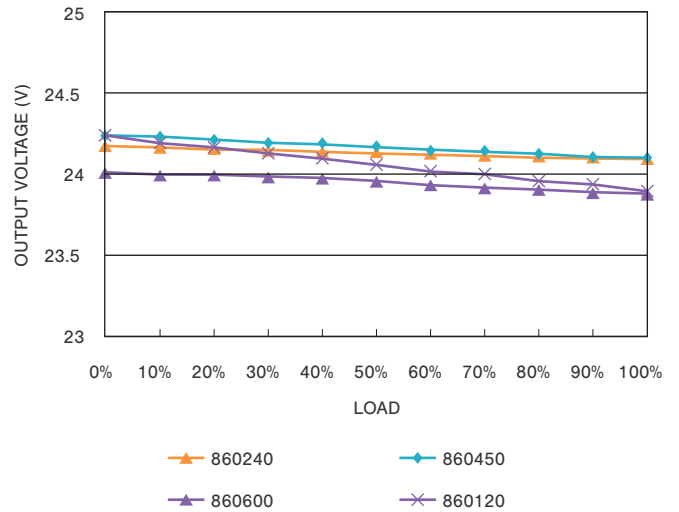
Dimming Options	TRIAC / Phase Cut, MCV, ELV & PWM	Short Circuit	Huvvup mode, auto-recovery upon removal of fault condition
Load Requirement	3W - 60W	Over Temperature	Shut down, auto-recovery
Dimming Range (Standard Triac)	10% - 100%	Ta	4°F (-20°C) to 104°F (40°C)
Dimming Range (Lutron CL)	0% - 100%	Working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

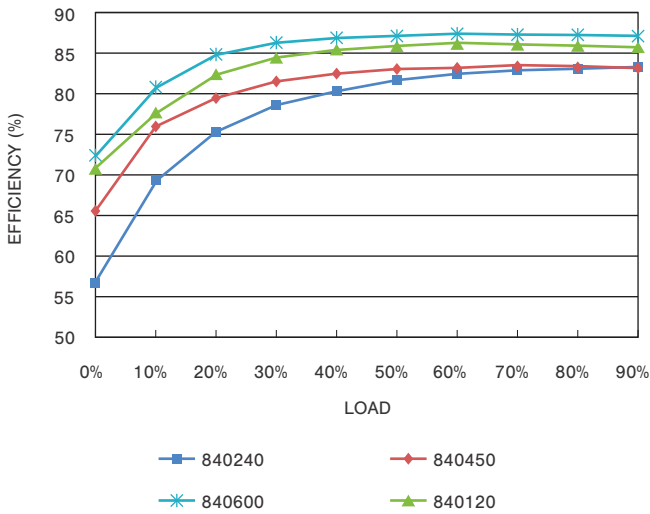
OUTPUT VOLTAGE VS LOAD (1)



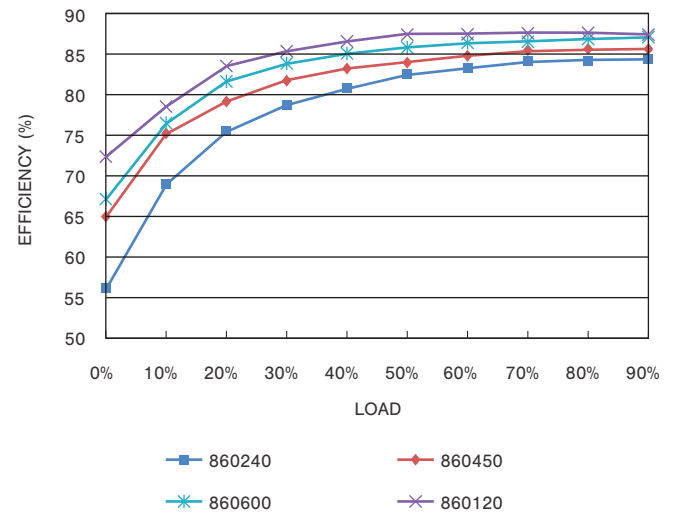
OUTPUT VOLTAGE VS LOAD (2)



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.