

FEATURES

- High Energy: Sun 1 to Sun 50
- Adjustable flash rate: 1 to 3 pps
- Illumination area: Circular: 5.50" (139.7 mm) dia.
- Lamp Spectrum: 200 nm to 1000 nm
- Modular - ease of installation
- Lamp instant ON/OFF - no warm-up time
- No toxic materials – mercury free

GENERAL DESCRIPTION

Model RC-847/LH-810 system provides a high energy, pulsed light system for reliable, repeatable testing of photovoltaic (PV) cells, modules and panels. For true sunlight simulation, this system features a high intensity pulsed xenon lamp that provides a broadband spectrum, from 200 nm to 1000 nm.

CORPORATE EXPERIENCE

Xenon Corporation is the world leader in pulsed light technology for a wide variety of industrial, medical and research applications. Xenon pioneered the application of high intensity xenon pulsed light for photovoltaic cell and module testing during the early 1980's. Xenon flashlamps and electronics were supplied to Arco Solar, an early leader in manufacturing solar modules. Xenon continues to be a major supplier of flashlamps to the global solar simulation industry.

In working with our customers, Xenon offers:

- A proven history of meeting the worldwide need for High Performance Pulsed Light in Science, Industry, Medical, and Electronics since 1964
- An unmatched depth of experience to provide solutions in the most challenging applications
- One-stop shopping capability from components to complete systems

Xenon Corporation enjoys a reputation for superior customer service and sophisticated products that are rugged and reliable. Hundreds of end-users and OEMs worldwide depend upon Xenon Corporation products for longer life, greater reliability, and less down time.

Our engineers will help you configure your ideal solution. We invite you to visit our labs and bring your application with you or contact us to arrange a conference call with our engineers. At Xenon, we step our customers through the discovery process of pulsed light. And we're ready to work with you to make your application a success.



SPECIFICATIONS

All specifications are typical unless otherwise noted ($T_{AMBIENT}$ @ +25°C, $V_{INPUT} = 208$ Vrms)

System Units	Model RC-847 Controller Lamp Housing Model LH-810 with 107 mm Spiral Lamp Lamp Housing Blower Kit ¹
RC-847 Front Panel Controls	
Timer power	ON/OFF
High voltage	ON/OFF
Continuous mode	ON/OFF
Pulse mode select	Timed or Continuous
Programmable timer	1 to 999 seconds in 1 sec interval
Flashlamp pulse rate	Factory set: 3 pulses/second, max
Timed start	Pushbutton
RC-847 Power Input	
With PS-812 HVPS	1-phase 200-240 Vrms, 50/60 Hz, 20 amps, max
Power output to flashlamp	2300 J/s, max
Mains power cord	8-ft (2.4 meters)
Warm-up time	1 minute
Lamp Housing Blower Options	
Model BL-510, 510 m ³ /h	1-phase 200-240 Vrms, 50/60 Hz, 4 amps
Model BL-1020, 1020 m ³ /h	1-phase 200-240 Vrms, 60 Hz, 6 amps
Model BL-1030, 1020 m ³ /h	1-phase 200-240 Vrms, 50 Hz, 6 amps
Model LH-810 Spiral Lamp Housing	
Pulse Energy & Pulse Rate	505 J/pulse @ 3 pps, max
Pulse Width	360µS
Control Cable Options	3, 6, 8 or 10 meters
High Voltage Cable Options	3, 6, 8 or 10 meters
Spiral Lamp	107 mm diameter, type C spectra
Window Opening	6.3" (160 mm) diameter
Optical Illumination Area	Circular: 5.50" (139.7 mm) diameter
Optimum distance to target	1.0" (25.4 mm) from window face
Mounting Hardware	Metric
Interlocks	Lamp Housing access cover
Cooling	RC-847 - internal fan, continuous ON LH-810 Lamp Housing - external blower ¹ Model BL-510 510 m ³ /h Model BL-1020 1020 m ³ /h Model BL-1030 1020 m ³ /h
Outline Dimensions	Height x Width x Length
Model LH-810 housing	6.00" x 7.80" x 9.5" (152 x 198 x 241 mm)
Model RC-847 cabinet	8.8" x 18.9" x 27.8" (226 x 480 x 706 mm)
Weight	
Model LH-810 lamp housing	9.5 pounds (4.4 kg)
Model RC-847 controller	87 pounds (39 kg)
Operating Environment	
Temperature	0 - 40°C (32-104°F)
Relative Humidity	10 - 90% (non-condensing)

SPECIFICATIONS

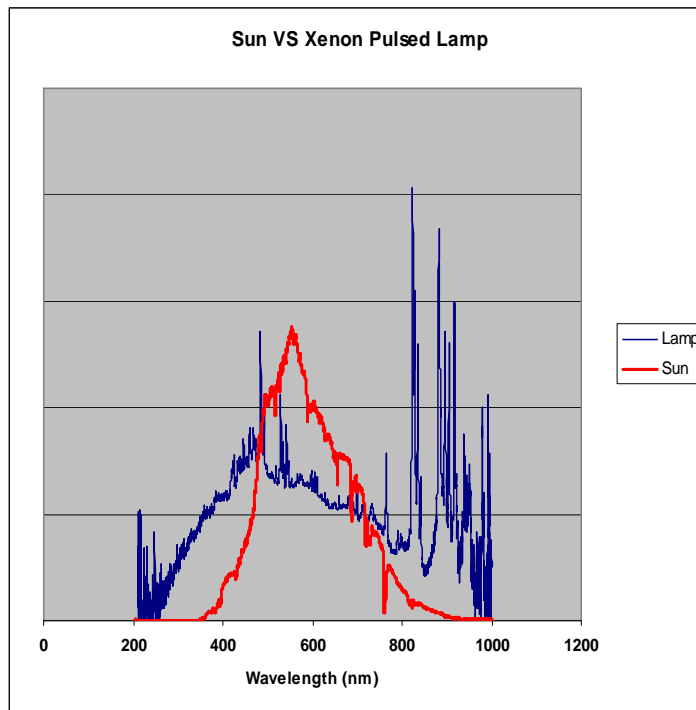
Regulatory Compliance

CE marked - certified to IEC, Canadian and US standards

Notes:

1 – Lamp Housing Blower Kits include blower, blower filter, metallic ducting, duct clamps and mains power cord. Cooling is dependent upon lamp operating duty cycle. Refer to lamp housing manual for cooling requirements.

Specifications subject to change without notice



Comparison of spectrum of flashlamp to that of sun



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