

Solar Light's **Model XPS-300 Power Supply** is a highly stable current source for xenon short arc lamps which is specifically designed to work with Solar Light's 601-Series and 16S-Series Solar Simulator models, with universal mains operation from 90-250VAC.

The rear panel has connection points for lamp power, chassis safety ground, 24VDC fan power, a normally closed fault loop circuit, 24VDC solenoid driver and signal lines indicating shutter and filter operating positions.

The XPS-300 is power regulated and power limited to simplify operation. A single front panel knob determines the power setting for the lamp, and a connector supports PMA/DCS meter options and access to 24VDC shutter control. The internal ignition counter stops the automatic ignition cycle after approximately 5 attempts.

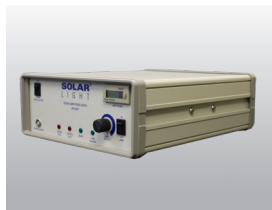
An external fault loop is used to provide thermal shutdown in the event of a lamp overheating or the fan failing. The fault loop circuit provides an intrinsically safe, normally closed circuit for remote sensing elements such as interlock switches, thermal switches or vacuum sensors. The system will not restart until the lamp enable switch is reset.

The power supply senses a lamp's end of life condition and will shut down when the lamp voltage exceeds 30VDC. Output is short circuit protected and "arc to ground" protected. The power supply chassis is internally protected with a thermal shutdown feature if the internal temperature exceeds 90°C.



Controls & Indicators:

- ON/OFF Rocker Switch (*Automatically Initiates Ignition Cycle on Rear Panel*)
- Lamp Enable Switch
- Manual Shutter Control Switch
- Lamp Power Adjustment Potentiometer (250W to 315W Range)
- 4 LED Indicators Showing Power On, Lamp Running, System Fault and Ignition Failure
- Lamp Hour Display
- Rear Panel Mounted Lamp Hour Reset
- DCS Automatic Dose Control Interface Connector



Configurations

The XPS-300 Power Supply comes with the line cord as specified by the customer. Universal mains operation from 90VAC to 260VAC.

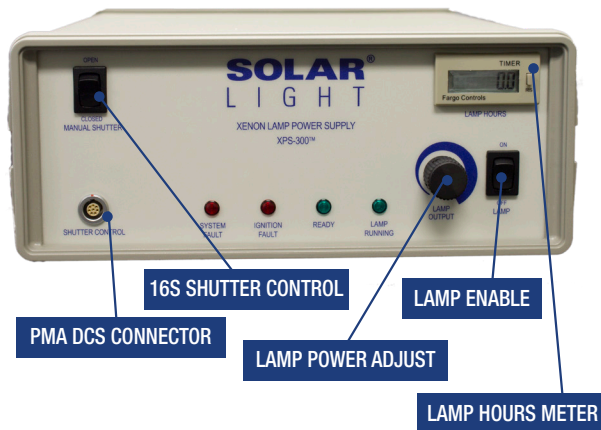
SPECIFICATIONS	
Power Requirements:	90 – 260VAC, 50 – 60Hz, 2.5 Amps max.
Lamp Power Adjust Range	250W to 315W
Output Voltage Range	15 to 29V
Lamp Power Stability	<1% after 5 minute warm up
Line Power Factor	0.92-1.00
Operating Temperature	25°C Recommended, 5 – 50°C Range
Ground Leakage Current	<3.5mA
Dimensions	10.75 x 5.5 x 9.5" (27 x 14 x 24cm)
Weight	8.9lbs (4.1kg)

Part Number: 210083

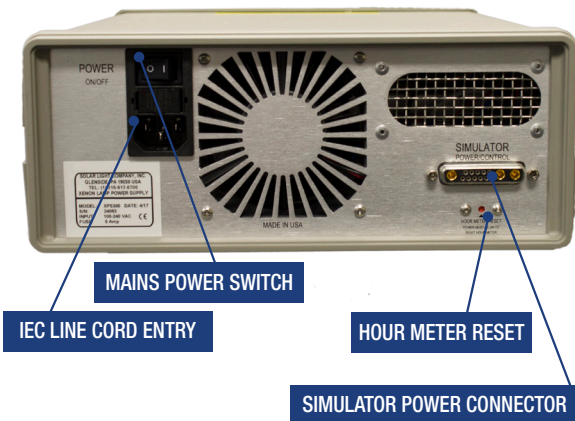
Revision Level: C

Specifications subject to change without notice.

XPS Power Supply Front Panel



XPS Power Supply Rear Panel



Since 1967, Solar Light Company, LLC has been recognized worldwide as America's premier manufacturer of Precision Solar Simulators and Light Sources, Light Measurement Instrumentation, UV Transmittance Analyzers, Meteorological Instrumentation, and Digital and Analog Sensors. Our advanced line of UV, visible, and IR radiometers and light meters measure laboratory, industrial, environmental, and health related light levels with NIST traceable accuracy. Column ozone, aerosol, and water vapor thickness measurements, in addition to long-term global ultraviolet radiation studies all over the world are performed using our atmospheric line of instrumentation. Solar Light also provides NIST traceable spectroradiometric analyses, calibrations for light meters and light sources, accelerated ultraviolet radiation degradation testing of materials, and OEM instrumentation and monitors. Please visit our website for more details, specifications, and pictures!



State Of The Art Solar Simulators available in 150-1000+ watt UV or AM variations for a variety of applications including PV Cell Testing, Materials Testing, Pre-Irradiation for *In Vitro* Broad Spectrum Sunscreen Testing, SPF Testing, and much more.



Multi-Functional Professional Grade Radiometers available with and without data logging, and compatible with over 130 Solar Light PMA-Series Sensors to measure UV, Visible and IR wavelengths. Specialty Meters also available to measure UV Radiation, SUV/UVA, Scotopic/Photopic Spectra, and much more.



Advanced NIST-Traceable Sensors for accurate measurement of UVA, UVB, UVA+B, UVC, Visible, IR, Photostability, Temperature, and Custom Wavelength – well over 130 models in both digital and analog configurations, all compatible with our Radiometers.



Ultraviolet Transmittance Analyzers available as complete integrated turnkey systems to meet the latest ISO24443 requirements.



Handheld Ozonometers and Sunphotometers for fast and dependable Column Ozone, Aerosol, and Water Vapor Thickness measurements, in addition to long-term global ultraviolet radiation studies.