

1000 WATT SOLAR SIMULATOR

Reproduce the Solar Spectrum For Your Lab



The 1000W Solar Simulator closely reproduces the solar spectrum from 250 to 2400nm using high stability Xenon short arc lamps. It includes a 1000W Xenon lamp and a precision power supply. This benchtop unit provides auto start and adjustable current regulation for variable intensity. An internal electric shutter and an ellipsoidal mirror capture up to 85% of the lamp output. Lamp cabinet access covers are safety interlocked.

This system is designed for: semiconductor testing, photovoltaic testing, phototoxicity research, material degradation research, atmospheric photochemical pollution research, and accelerated UV and solar exposure testing of color fastness and material stability for paints, textiles and plastics.

FEATURES:

- Reproduces UV and other spectra using Xenon, Xenon/Mercury, or Mercury short arc lamps
- High efficiency, 1000/1600W regulated switching power supply with adjustable current for variable intensity
- Standard and customizable simulators meet FDA, ASTM, ANSI, ISO, and COLIPA test protocols
- Optional filters allow for user changeable spectra
- Square and Round beam sizes of 2", 4", 6", 8", and 10"
- Beam uniformity across illuminated area better than +/- 5%
- Collimation: Less than 4° half angle
- Lamp Lifetime: Approximately 900 hours
- Forced air cooling system

OPTIONS:

- Optional 1600W and 4kW Xenon or Xenon/Mercury lamps by special request
- Filters: UV, UV-A, UV-A+B, and Air Mass 0, 1.0, 1.5, 2.0 spectral irradiances

<u>PART NUMBER</u>	<u>DESCRIPTION</u>
A012-050	1000W SOLAR SIMULATOR

24-HOUR PRODUCT SERVICES

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