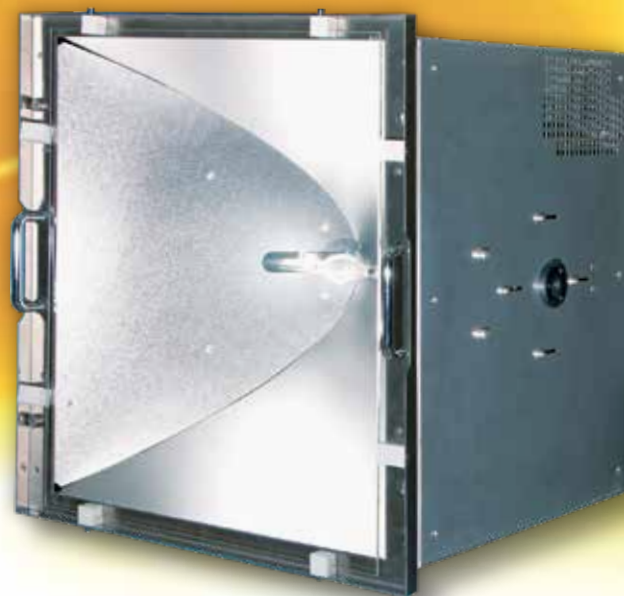


# SolarConstant Standard Systems

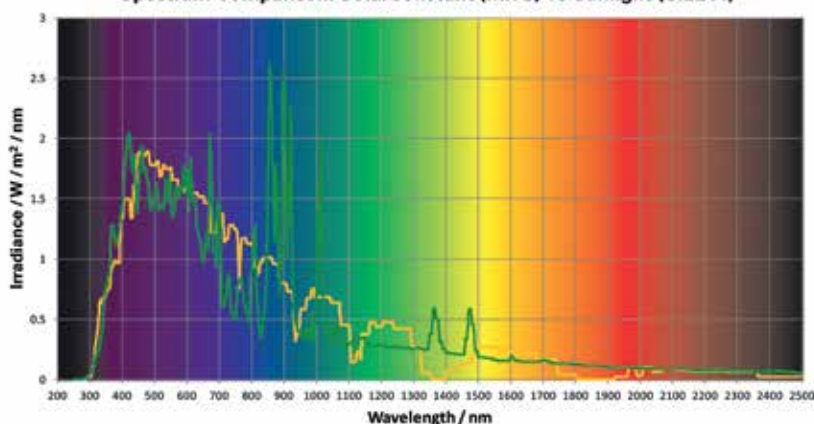
High performance lighting for  
small to medium sized  
standard solar simulators



## Features

- Selected premium metal halide lamps
- Optical filters for optimum spectrum alignment
- Spectral irradiance conformance validation per standard or specification
- Special reflectors for superior irradiance uniformity on test target
- Simple controls for integration into larger test systems
- Long-lasting stainless steel design

Spectrum Comparison: SolarConstant (MHG) vs Sunlight (CIE241)



## Standard Applications

Atlas SolarConstant technology is closely aligned to international references such as CIE241. Atlas lighting provides premium steady state solutions for product aging tests, solar heat load testing as well as performance testing. Typical applications include tests on PV modules, consumer electronics, automotive and military products referring to standards DIN 75220, MIL-STD-810H, IEC 60068-2-5, etc. and general screening tests under specific radiation conditions.



## Standard Solar Systems

New standardized systems have been developed to provide economical solutions with fast delivery. All solutions include a fully operational system with lamps, power supplies, control, software, and cabling. Additional options are available as needed.

## Options

- Movable tripod
- Static frame fixations
- Set of neutral density filters (79/68/62/50 %)
- Automatic Irradiance Reduction system (A.I.R.)
- Filter with customized diffusion
- Atlas *Easy-Access* fixation
- Pyranometer (selectable)
- Protective clothing
- Transformer on request
- Installation on request

## Technical Overview SolarConstant

Lamp type	metal halide
Lamp power	2000 W / 2500 W / 4000 W
Mean lamp life	1000 h
Spectrum range (Daylight)	280-3000 nm
Optical filter outdoor Daylight	selectable
Optical filter indoor Daylight	selectable
Optical filter UV-STOP	selectable
Ambient temperature (On)	-10 °C to +60 °C
Ambient temperature (Off)	-10 °C to +80 °C
Ambient temperature extension (Off)	(optional) -40 °C to +80 °C



*SolarConstant integration into climate test chamber*



*SolarConstant system with static frame fixation*



*Atlas **Easy-Access** on climate test chamber*



*SolarConstant system on movable rack*

**Atlas knowledge and technology will help you to make the right choice for your next solar simulator.**