



Compact LED Solar Simulator is a Finalist for the Photonics Prism Awards at Photonics West 2020

Woburn, MA, January 27, 2020 - Innovations in Optics, Inc. introduces the Model 6000B-100, a compact, multi-wavelength LED solar simulator for PV manufacturers to test steady-state I-V measurements of photovoltaic devices. It meets Class AAA solar simulator requirements of IEC 60904-9 for spectral match, uniformity of irradiance, and temporal stability.

The Prism Awards is an international competition that recognizes the most innovative new products from companies that will make a difference and improve quality of life through photonics. The Model 6000B-100 is a finalist in the Energy category. The award winners are revealed at the SPIE Photonics West event in San Francisco.

The 6000B-100 includes a digital driver/controller with RS-485 MODBUS RTU protocol. Embedded chip-scale spectral sensors provide feedback monitoring to stabilize source irradiance. The field of illumination is 50 x 50 mm at a working distance of 155 mm. The compact and lightweight design supports a diversity of system integration concepts. Consuming only 15W of input power to produce 1 Sun of irradiance, the 6000B-100 is energy efficient and simplifies any thermal interface or active cooling scheme. Its complete value proposition comprises low power consumption, higher stability, smaller size, greater application flexibility, and a significantly lower cost-of-ownership for PV testing compared to other commercial solar simulators. The product is intended for industrial use by qualified system integrators.

About Innovations in Optics, Inc.

Founded in 1993 and located near Boston, Innovations in Optics, Inc. offers high power LED light sources for science and industry that provide maximum photon delivery, illumination uniformity, and stable optical power. Products offer system-level advantages over lasers and arc lamps in OEM equipment for many applications. Available LED wavelengths range from the UV through the near-infrared, including broadband white and multiband options. LumiBright™ light engines are used as excitation sources in fluorescent imaging for life science applications. UV LED products support photomask exposure, direct image writing, 3D printing and photocuring. Extreme brightness LED Pattern Projectors enable 3D machine vision. Fiber-coupled light engines provide superior light delivery for industrial borescopes, medical endoscopes, microscopes, and UV spot curing. System accessories include thermal management devices, wire harnesses and driver/controllers.