

SimuLight LED50

LED Solar Simulator

Electrical, Optical & Thermal
Imaging & Test Systems

Standard Component for Solar Cell Testing

LED Solar Simulator is simulated sunlight formed using a plurality of LED illumination in accordance with the international compliance standard as defined in IEC 60904-9, ASTM E927, and JIS C8912. The LED Solar Simulator meets class A requirements for all the criteria of spectral match, non-uniformity, and temporal instability. It can be an ideal solution for the long-term reliability test of the solar cell. Additionally, it is also possible to change total spectrum distribution and irradiance by controlling individual LED's driving current

Multi-LED

+

Class AAA

+

Controllable

+

Spectrum

+

Irradiance



- Solar Simulator
- Multiple LED Light Source
- Class AAA Performance
- Solar Cell Efficiency Measurement
- PV Device Long Term Test
- Controllable Spectrum & Irradiance

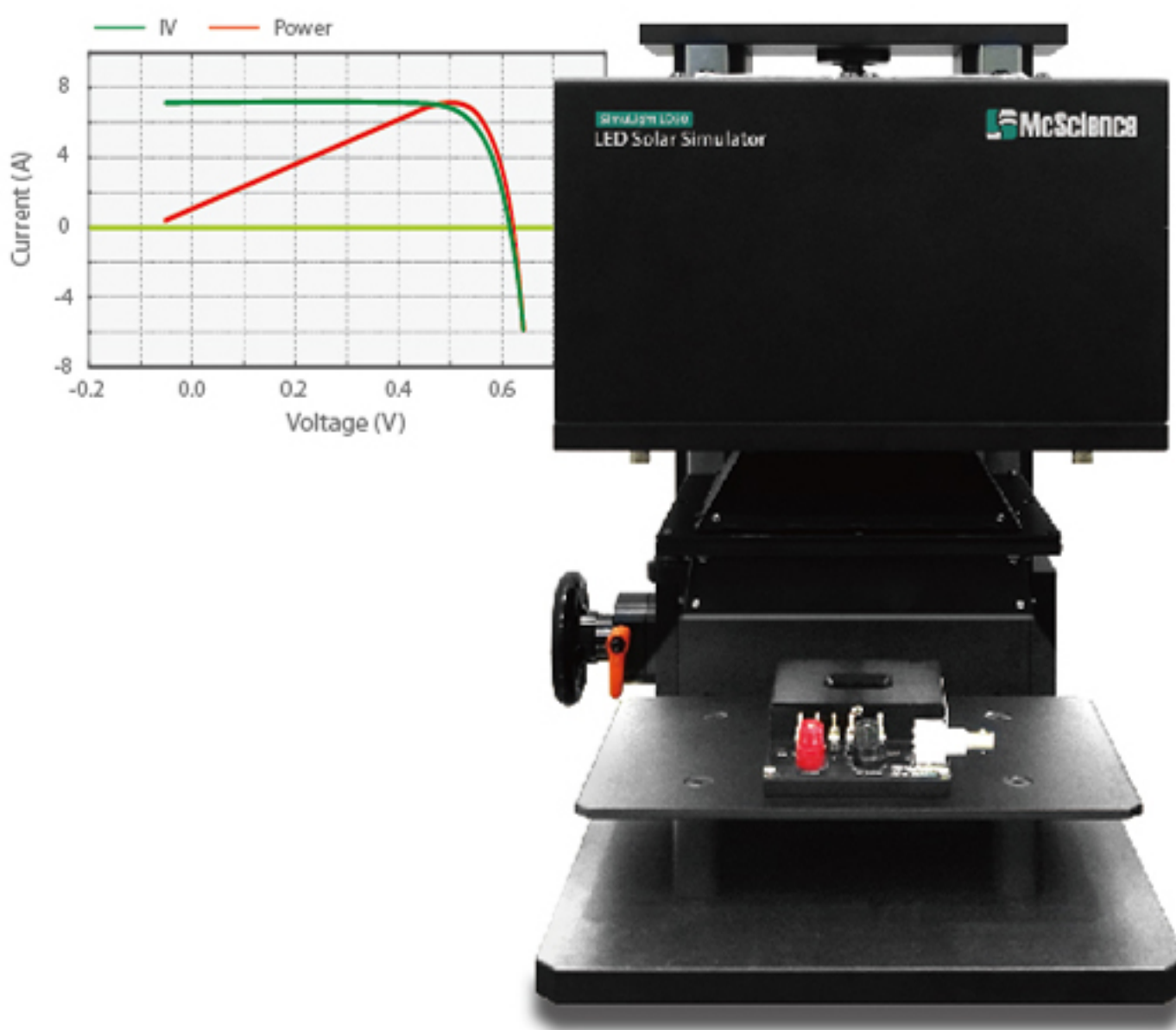


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Product Application

Solar Cell Efficiency Measurement



<I-V Curve>

Photovoltaic Device Long Term Test



<Long Term & Aging>

Artificial Sunlight System for Plant Growth



Artificial Skin / Cosmetics Performance Evaluation





Product Specification

Model Name	LED Solar Simulator LD50
Spectrum Range	350nm ~ 1100nm
Effective Irradiated Area	50mm x 50mm (developing 300mm x 300mm)
Spectral Match	Class A (0.75 ~ 1.25%)
Non-Uniformity of Irradiance	Class A (<2.0%)
Temporal Instability	Class A (<2.0%)
Working Distance	150mm
Irradiance Control Range	0.1 ~ 2.0 Sun
Irradiance Control Mode	Manual Control or Software Control
Operating Temperature	20 ~ 25°C
Power Specification	AC 220V, 50/60hz
Dimensions(L x W x H) & Weight	Body : 30.5(L) x 30.5(W) x 54(H) , 20kg / Support : 34(L) x 34(W) x 30(H), 2kg

