

REFERENCE SOLAR CELL

SC-9000

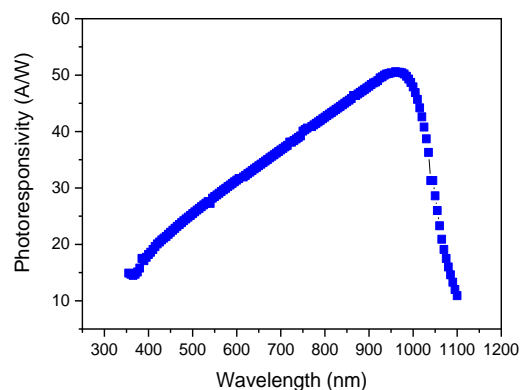
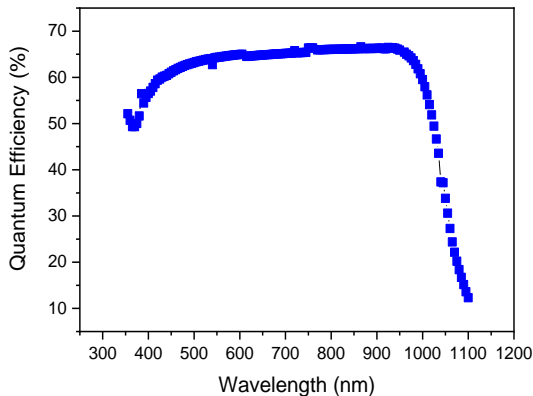
This photovoltaic reference cell is designed for calibrating the irradiance of solar simulator used in testing solar cell or when assessing the performance of photovoltaic devices to determine the I-V characterization. The calibrated reference cell consists of a 10mm x 10mm monocrystalline silicon photovoltaic cell encased in a 100mm x 100mm enclosure with a AM1.5 filter. All our measurements are done according to the following IEC standards: IEC 904-1, IEC 904-2, IEC 904-7, IEC 904-8, IEC 904-9, IEC 60891, ASTM 1021, ASTM E973M. The calibrated solar reference cell includes a certificate of calibration, compatible set of connecting cables, and is certified in the following parameters:

Calibration condition: 1000 Wm² (1 sun), AM1.5G, 25 °C



Enclosure dimensions: 100mm X 100mm X 10mm

Operating temperature 10 °C-40 °C



a) Quantum Efficiency spectra of Reference solar cell b) Photoresponsivity spectra of solar cell

Calibration Report

Photovoltaic parameters under 1 SUN

I_{sc} (mA)	V_{oc} (V)
0.78	0.48

The certification is accredited by NIST to the ISO-17025 standard and is traceable both to the National Renewable Energy Laboratory (NREL), and to the International System of Units (SI).

