

QE-B1

QE-B1 Reference Solar Cell

QE-B1 is a monocrystalline silicon reference solar cell for setting the irradiance of a solar simulator before photovoltaic I-V measurements. Filter options adapt the reference response to the measurement.

Best for: Calibrating solar-simulator intensity before comparing solar-cell conversion efficiency.



Monocrystalline Si

Cell material

Irradiance calibration

Purpose

Optical filters

Options

NIST-traceable data

Calibration

Overview

QE-B1 supplies the irradiance reference used to calculate solar-cell conversion efficiency from an illuminated I-V measurement. The reference-cell calibration is applied before measuring the test device.

Select the filter and calibration configuration with the simulator spectrum and device response in mind.

Features

- Reference cell for solar-simulator irradiance adjustment
- Different optical-filter configurations available
- Calibration data traceable to NIST

Applications

- Solar simulator calibration
- Photovoltaic I-V test benches
- Comparison of solar-cell conversion efficiency

Specifications and configuration

Reference cell	
Model	QE-B1
Cell material	Monocrystalline silicon
Calibration purpose	Absolute irradiance of the test light source
Filter options	Different optical filters available
Traceability	NIST-traceable calibration data

www.precisometer.com/spectroscopy/photoelectric-testing/qe-b1