CEP-2000 Spectral Response measurement system

the solar cells.

1.0

0.9



*Actual appearance of the instrument is black

By irradiating monochromatic light to them in constant energy or constant photons that does not have dependency on the wavelength, the model CEP-2000 is capable to measure the spectral response and quantum efficiency of

e sensitize and organic thin film

The CEP-2000 has been designed for the measurement of organic solar cells which require much stronger constant energy (max. 5mW/cm²) and constant photons (max. 10¹⁶photon/cm²) compared with that of silicon cells.

A white bias light source is available as a standard which enables the model CEP-2000 to measure the I-V curve with the AM-1.5G filter as a solar simulator easily in addition to spectral response measurement under the pseudo s unlight.

Spectral response

(d)

100

Specifications

Measurement items Wavelength range

Monochromatic light

Irradiation area

non uniformity

Constancy of

White light bias Light source

Irradiation area

Wavelength purity

Irradiation Intensity

Light source

In-plane

Spectral response, I-V curve, Quantum efficiencies 300~1200nm

Xenon lamp 10×10mm Variable, ca. 24nm $0.5 \sim 5 \text{mW/cm}^2$ (400 \sim 700 nm) 0.1~1mW/cm2 (300~1200nm) ±5%@550nm

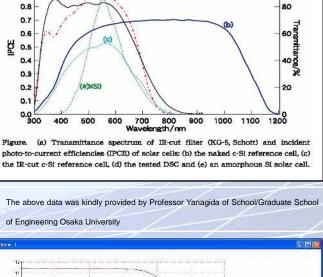
wavelength intensity Irradiation mode Constant energy, Constant photons Measurement mode DC and AC (0.1 ~ 100Hz)

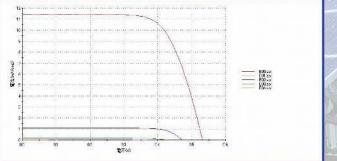
> Xenon lamp 20×20mm

Spectral coincidence Class A (0.75~1.25)

0.0 Figure.

±3%





I-V measurement data (an example)

*The specifications and appearance are subject to change without prior notice

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