



Specifications

Measurement	Spectral response, quantum efficiency, I-V curve
Wavelength range	300 ~ 1700nm (~2000nm can be expanded as an option)
Light source for monochromatic light	Xe lamp + Halogen lamp
Irradiation area for monochromatic light	20×20mm (can be expanded to 50×50mm as an option)
Wavelength purity	Variable, Max. 20nm
Irradiation intensity	5 ~ 50μW/cm ² or more (Wavelength 350 ~ 1200nm)
Positional non-uniformity	Within ±2.5%
Constancy of wavelength intensity	Within ±3%
Irradiation mode	Constant energy and constant photon
Measurement mode	DC and AC (13 ~ 100Hz)
Light source for White light	Xe lamp (Auto color bias)
Irradiation area or White light	20×20mm
Spectral match	JIS C8912 · C8933 Class A
Reflectivity measurement range/items	0~100% Dark/Baseline/Reflectivity measurement
Measurement method	Double beam optical system: Sample and reference beam are switched by the sector mirror



Standard Configuration

- Xe lamp 500W (for monochromatic light)
- Xe lamp 500W Power supply (for monochromatic light)
- Halogen lamp 400W (for monochromatic light)
- Halogen lamp 400W Power supply (for monochromatic light)
- Light condensing optical system (for 2 light sources type)
- Monochromator
- Grating 600 line/mm brazed at 300nm
- Grating 600 line/mm brazed at 500nm
- Grating 600 line/mm brazed at 1600nm
- Light emitting optical system (auto continuous density variable ND filter)
- Variable frequency chopper DC/13 ~100Hz
- High order light cut filters
- Xe lamp 150W (for White light)
- Xe lamp 150W Power supply (for White light)
- Optical system for white light (Built-in AM1.5G filter)
- Color filter holder
- Sample compartment
- Source meter, Lock-in amplifier
- Si Photo diode detector (for monochromatic light and white light)
- TP unit
- Si detector holder
- Reflectivity measurement optical system (including a standard diffusion plate)
- Cable for solar cell (XRY- Alligator clip)
- Interface unit
- Note PC
- Instruction Manual

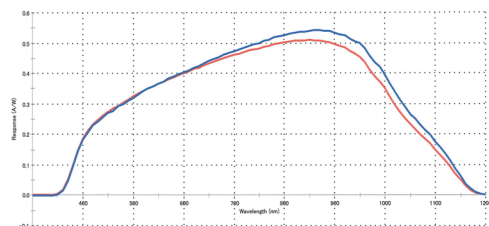


Option

- Various sample holders
- Automatic filter switching mechanism for white bias (ND filter / color filter)



Spectral response data of polycrystalline Si



Layer Number : 01
 11208.01.20.000 Sample Area (cm²) Bias Light Bias Volt Irradiate AC/DC Unit/Int (mW²) Date
 11212.01.20.000 4 White 0 1V 100 (μW/cm²) DC 20 1743 2008/11/13 11:22:22

The spectral response in the long wavelengths range differs with (blue graph) and without (red graph) white bias. Under pseudo sunlight irradiation, you can see that the spectral response characteristics are different.



Dimensions

- Power : AC100V ±10V 50/60Hz 20A
- Main unit : Approx. W1750×D950×H1460mm
- Weight : Approx. 400Kg

- Dimensions are approximate. Appearance and dimensions may vary depending on options.
- The specifications, configuration and appearance are subject to change without prior notice.

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