

ATLAS CUSTOM SOLAR SIMULATORS FOR THE SOLAR ENERGY INDUSTRY

Questionnaire

General

Customer: _____

Full Company Name: _____

Full name: _____

Department: _____

Job title: _____

Address: _____

Phone: _____

Email: _____

Project: _____

Application

Kind of application?

Crystalline PV

Thin film PV

Organic PV

Building integrated PV

Solar Thermal

Others

If others please describe:

Kind of testing?

Light Soaking

UV Pre-conditioning

I/V-Measurement

Others

If others please describe:

Purpose of testing?

Durability Tests

IEC / UL Qualification Test

Others

If others please describe:

Type of specimen?

Materials Components Cells Modules Others

If others please describe:

Specimen geometry and size?

Are the specimens planar 2-dimensional curved 3-dimensional

What are the physical dimensions of the specimen?

Length: _____

Height: _____

Width: _____

Specifications

Has the test to be performed in accordance with any standard?

If so, please give us the name, version, and clause:

IEC 61215 IEC 61646 EN 12975 IEC 904-9

ISO 9806-1, -2, -3 IUL 1703 Others

Specify part / clause of standard:

If others please describe:

Please give the main requirements:

Solar Simulation System

What size is the area and/or the volume that has to be irradiated?

Length: _____

Height: _____

Width: _____

What is the required irradiance

for the full spectrum (280 nm - 3.000 nm) in W/m²: _____

(typical max. 1000 W/m²)

What are the requirements on spectral power distribution:

Requirements on the spatial homogeneity on irradiated area: _____

(typical +/-10% (1Sigma))

Are there any requirements on the class of the light source / irradiated area?

Spectrum: Class B Class C

Homogeneity: Class B Class C

Temporal Stability: Class A Class B Class C

Do you want the solar simulation system: Fixed Moveable

If moveable please explain your needs:

What type of control system do you prefer?

Manual Automatic External TCP/IP

If an automatic and/or external control is requested,
please describe your needs:

What is the average distance for cable routing between the electrical supply
rooms (installation of our electrical cabinets) to the solar simulation system?

What kind of electrical supply is available in your facility?

(Voltage/Frequency/Power): _____

Do you have any other special requirements ? Yes No

If yes, what are they:

Other Test Parameters

Do you have requirements on climatic conditions for the specimens tested?

Please specify: _____

Do you have requirements on wind speed at the specimens surface?

Please specify: _____

**If possible please attach a rough sketch of your test facility and your test
arrangement.**

Ambient operation and installation conditions

What are the inner dimensions of your test chamber:

Length: _____

Height: _____

Width: _____

What are the ambient conditions for the solar system inside the chamber?

Not in operation / In operation

Temperature (°C) _____ / _____

Rel. Humidity (r.H.) _____ / _____

What are the ambient conditions for the electrical cabinets?

Temperature (°C) _____ Relative Humidity (%) _____

Thank you for your assistance.