

**ATLAS CUSTOM SYSTEMS LIGHTING EQUIPMENT FOR SOLAR SIMULATION
PURPOSES IN 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!