

FLORIDA SOLAR



ENERGY CENTER<sup>®</sup>

## FSEC REQUEST FORM

# PV Module Power Rating Request Form

Date

September 25, 2006

1679 Clearlake Road, Cocoa, FL 32922-5703 • Phone: 321-638-1000 • Fax: 321-638-1010  
[www.fsec.ucf.edu](http://www.fsec.ucf.edu)



A Research Institute of the University of Central Florida

## **GENERAL**

A test set consists of six modules. The modules in the test set must be identical in all respects, including PV cells, series-parallel connections, substrate, superstrate, encapsulating materials, framing, inter-cell wiring and terminals. Any changes in any one or more of these characteristics will require retesting of a new set of modules.

## **MODULE SAMPLING**

A random sample of any modules to be tested will be obtained by either of the following two methods:

- Serial numbers of at least 100 modules from each of three (3) separate production runs, will be submitted with the application. FSEC will then select a random set of modules for testing from the list provided.
- A list of at least three (3) distributors or retailers will be provided to FSEC from whom test modules may be obtained. FSEC will contact the distributors or retailers for a list of serial numbers of modules available. FSEC will then select a random set of modules for testing from the lists provided.

## **REFERENCE MODULE**

FSEC maintains a set of calibrated reference modules of most cell types. It is recommended that the requestor supply a reference module (single cell preferred) that has identical electrical and optical properties to the modules to be tested. An independent, accredited calibration laboratory shall calibrate this reference module. The National Renewable Energy Lab (NREL), in Golden, Co. is a US lab that performs this service.

## **COST**

Fee amounts are stated in the FSEC Fee Schedule located at [www.fsec.ucf.edu](http://www.fsec.ucf.edu). FSEC may revise the fee schedule as deemed necessary to cover testing and associated costs.

The Final Test Report will be given to the requestor upon completion. Certification of module power rating will require test results be posted on the FSEC web site. For more details, contact:

Stephen Barkaszi  
Phone: (321) 638-1473  
Email: [barkaszi@fsec.ucf.edu](mailto:barkaszi@fsec.ucf.edu)

or

Kevin Lynn  
Phone: (321) 638-1440  
Email: [klynn@fsec.ucf.edu](mailto:klynn@fsec.ucf.edu)

## REQUIRED INFORMATION

### Submitted by (Requestor):

Name	
Title	
Company	
Phone #	
Address	
City, State, Zip	

### Module Information:

Module Type and Model(s)	
UL Listed and Designation	
Cell Material	
Cell Junction (single, dual, triple)	
Cell Arrangement (series x parallel)	
Module Dimensions (height x width x thickness)	
Module Weight	
Voltage Temperature Coefficient (1/°C)	
Current Temperature Coefficient (1/°C)	
Voltage Irradiance Correction Factor	
Date Manufactured	

### Module Production Runs or Distributor Contact Information:

# 1	
# 2	
# 3	

### Reference Module:

Type/Material	
Cell Identification / Serial No.	
Manufacturer	
Calibration Laboratory (NREL, SNLA)	
Calibration Procedure (E1039, E1125, E1362)	
Calibration Constant (Isc @ STC)	
Temperature Coefficient of Current (1/°C)	
Date Last Calibrated	

Applicant Signature \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_ Title \_\_\_\_\_

**Post-Test Disposal of Modules.**

**Set # 1**

The Photovoltaic Modules, Model: \_\_\_\_\_ submitted to the Florida Solar Energy Center for testing are to be disposed of in the following manner.

Please put a check mark in front of one of the following:

Donated to FSEC

Returned to Requestor

Other

Authorized Signature: \_\_\_\_\_ Date. \_\_\_\_\_

Name. \_\_\_\_\_ Title. \_\_\_\_\_