National Center for Photovoltaics

NREL

Measurements and Characterization Division

Photovoltaic Cell Measurements Request Form

☐ **Confidential *(protection available only to USA requesters***

Requester and Correspondence Information

Requester_____ Requester phone _____.
Requestor Affiliation_____ Requestor fax or email_____.
Cover letter? Y/N Requester's data supplied ? Y/N WFO task number (if WFO) _____.
Other persons authorized to receive data and test report_____.

If other then requestor
Technical contact person and contact information_____.
Deliver data to Return sample to

Sample information (please use one form for each material/structure)

Manufacturer_____ Device IDs _____ _____.
Property of (if other than Mfr)_____ _____ _____.
World record expected? Y/N Number of junctions 1/2/3/4
Has this cell been previously measured in this lab? ☐Yes → When_____ ☐No ☐Don't know

Please circle junctions below. Do not indicate windows, AR coatings, or contacts. If you wish to have these or other features indicated on the test report, please note them in the comment section, below.

Mono-Si	a-Si/multi-Si	GaAs	GaInP/GaAs/Ge Triple	ZnO/CdTe
Multi-Si	CdS/CdTe	GaAs/Ge Tandem	Ge	ZnO/Cu(In,Ga)Se2
a-Si	CdS/Cu(In,Ga)(S,Se)	GaInAs	nano-crystalline	ZnO/CuInSe2
a-Si/a-Si	CdS/Cu(In,Ga)Se2	GaInAs/GaAs Hetero-j	solid nano-crystalline	
a-Si/a-Si:Ge	CdS/CuInSe2	GaInP		☐other III/V_____.
a-Si/a-Si/a-Si:Ge	GaAlAs/GaAs Tandem	GaInP/GaAs Hetero-j		☐other II/VI_____.
a-Si/a-Si:Ge/a-Si:Ge	GaAlAs/GaAs Hetero-j	GaInP/GaAs Tandem		☐other _____.

Requester's data Area Isc Jsc Voc FF Eff.

Measurement Requested

☐ QE/LIV Global Performance Quantum Efficiency and current vs. voltage under AM1.5 global normal spectral irradiance (1000 W/m^2, ASTM E892-87, IEC 904-3) at 25°C.
☐ QE/LIV Concentrator Performance Quantum Efficiency and current vs. voltage under AM1.5 direct normal spectral irradiance (1000 W/m^2, AOD 0.085) at 25°C.
☐ DIV Dark current vs. voltage Don't exceed: _____A, _____V(forward), _____V(reverse).
☐ Reference cell Calibration Current at zero volts / Voltage
☐ QE only Absolute/Relative Wavelength Range____-____nm Light bias _____mA Voltage Bias____V Rev/Fwd
☐ OTHER (parameter v. temperature, bias rate, or irradiance, non-standard reporting conditions

Priority
(This section is to be completed only by Tom Moriarty or Keith Emery.)
☐ Normal (2 to 5 weeks, multijunction devices take longer)
☐ Rush By_____.
☐ Now

Sample identification or contacting diagram

Use back of form if necessary

Other Notes or Instructions

Shipping Address	Postal Address	Contact Information	Phone	email
PV Cell Performance Laboratory	PV Cell Performance Laboratory	Laboratory	(303) 384-6458	
Tom Moriarty, NREL, SERF, Lab E220	Tom Moriarty, NREL, MS 3215	Tom Moriarty	(303) 384-6551	tom_moriarty@nrel.gov
16253 Denver West Parkway	1617 Cole Blvd.	Keith Emery (team leader)	(303) 384-6632	keith_emery@nrel.gov
Golden, CO 80401-3393 USA	Golden, CO 80401-3393 USA	NREL PV website: http://www.nrel.gov/pv		

Date Received_____ **Authorization to Proceed**_____

Date Reviewed_____ Reviewer's Initials_____ Date shipped or returned _____.

Form date: 8/20/04 Filename: Cell request form 040820.doc