



**IEC 61215:1993 Ed. 1.0 (and Ed. 2.0 - proposed)  
Crystalline silicon terrestrial photovoltaic (PV) modules -  
Design qualification and type approval**

**Product Certification Application Form      DRAFT3**

**0. Application for product certification by the National Certification Body (NCB):**

**0.1 Application for product testing to be conducted by the Certification Body Testing Laboratory (CBTL):**

**1. Identification of applicant**

- 1.1 Name of applicant:
- 1.2 Address:
- 1.3 Telephone No.:
- 1.4 Telefax No.:
- 1.5 Name of the responsible contact person:
- 1.6 E-mail address:

**2. Identification of manufacturer (if different from applicant)**

- 2.1 Name of manufacturer:
- 2.2 Address:
- 2.3 Telephone No.:
- 2.4 Telefax No.:
- 2.5 Name of the responsible contact person:
- 2.6 E-mail address:
- 2.7 Current quality registration/certification:

**3. Identification of factory locations for types or models described in Section 4.  
Use Annex A if more than two factories are involved.**

3.1	Factory name:  Address line 1: Address line 2: City or Province: State or Country: Postal Code:	Contact Name: Contact E-mail: Telephone No.: Telefax No.:  Trade marks or other markings issued on products:
3.2	Factory name:  Address line 1: Address line 2: City or Province: State or Country: Postal Code:	Contact Name: Contact E-mail: Telephone No.: Telefax No.:  Trade marks or other markings issued on products:



**4. Scope of product certification requested**

4.1 Total number of products to be evaluated for full certification:

4.2 Please indicate by type designation or model numbers those products that fit into a series or family range:

4.3 Product information matrix. Use Annex A if more than four product types or models are being submitted.

	<b>1</b>	<b>2</b>	<b>3</b>
4.3.1 Type designation or model number:			
4.3.2 Module weight (kg):			
4.3.3 Total length x Total width (cm x cm):			
4.3.4 Cell type or technology:			
4.3.5 Cell manufacturer:			
4.3.6 Total number of cells:			
4.3.7 Number of cells in series:			
4.3.8 Number of cells in parallel:			
4.3.9 Number of bypass diodes:			
4.3.10 Number of series cells per bypass diode:			
4.3.11 Bypass diode rating, A:			
4.3.12 Bypass diode max. junction temp., °C:			
4.3.13 Superstrate type:			
4.3.14 Substrate type:			
4.3.15 Frame type:			
4.3.16 Encapsulant type:			
4.3.17 Junction box type:			
4.3.18 Cable type:			
4.3.19 Connector type:			
4.3.20 Maximum system voltage, V:			
4.3.21 STC open-circuit voltage (include tolerance), V:			
4.3.22 STC short-circuit current (include tolerance), A:			
4.3.23 STC voltage at max. power (include tolerance), V:			
4.3.24 STC current at max. power (include tolerance), A:			
4.3.25 Maximum power at STC (include tolerance), W:			



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**5. Product status and handling**

- 5.1 The products above represent:  Standard production products  
 New production products  
 Prototypes of a new design
- 5.2 If modules require special handling, please specify requirements:
- 5.3 If modules are not intended for open-rack mounting please specify mounting requirements:

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**6. Electrical terminations**

- 6.1 For threaded stud, screw, tag, etc. electrical connections please specify recommended cable size and type:
- 6.2 For connector terminations, please specify recommended cable size and type for connection to the output end of the connector:

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**7. Special notes for the CBTL**

- 7.1 Are matched technology PV reference devices available for the products described in section 4?  YES  NO
- 7.2 Are bypass diode cases or heat sinks accessible for the products described in section 4?  YES  NO
- 7.3 Are blocking diodes incorporated into the module design?  YES  NO
- 7.4 If modules require special mounting means and methods for the mechanical loading test, please specify the requirements:
- 7.5 If modules have special hot-spot protective devices that are recommended, but not supplied with the module please specify them:
- 7.6 If modules require special mounting hardware that is not supplied, please specify requirements:
- 7.7 If modules require special connection instructions please specify them:
- 7.8 Date at which samples can be shipped for testing:

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**8. Optional manufacturer-supplied information. Note that this information is considered useful, but does not necessarily preclude verification testing by the CBTL.**

- 8.1 Current-temperature coefficient at short circuit, %/°C:
- 8.2 Voltage-temperature coefficient at open circuit, %/°C:
- 8.3 Power-temperature coefficient at maximum power, %/°C:
- 8.4 Nominal operating cell temperature (NOCT), °C:
- 8.5 Internal series resistance, Ω:
- 8.6 Curve correction factor, Ω/°C:



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**Annex A – Additional Product Information DRAFT3**

Copy the following table and append as necessary for all factory locations that produce types or models included in this certification request:

3.	Factory name:	Contact Name:
	Address line 1:	Contact E-mail:
	Address line 2:	Telephone No.:
	City or Province:	Telefax No.:
	State or Country:	Trade marks or other
	Postal Code:	markings issued on products:

Copy the following table and append to subsequent pages as necessary to include all products for which certification is sought:

4.3 Product information matrix continued

	#	#	#
4.3.1 Type designation or model number:			
4.3.2 Module weight (kg):			
4.3.3 Total length x Total width (cm x cm):			
4.3.4 Cell type or technology:			
4.3.5 Cell manufacturer:			
4.3.6 Total number of cells:			
4.3.7 Number of cells in series:			
4.3.8 Number of cells in parallel:			
4.3.9 Number of bypass diodes:			
4.3.10 Number of series cells per bypass diode:			
4.3.11 Bypass diode rating, A:			
4.3.12 Bypass diode max. junction temp., °C:			
4.3.13 Superstrate type:			
4.3.14 Substrate type:			
4.3.15 Frame type:			
4.3.16 Encapsulant type:			
4.3.17 Junction box type:			
4.3.18 Cable type:			
4.3.19 Connector type:			
4.3.20 Maximum system voltage, V:			
4.3.21 STC open-circuit voltage (include tolerance), V:			
4.3.22 STC short-circuit current (include tolerance), A:			
4.3.23 STC voltage at max. power (include tolerance), V:			
4.3.24 STC current at max. power (include tolerance), A:			
4.3.25 Maximum power at STC (include tolerance), W:			