**RTG Check list for IEC61215, IEC61646, IEC61730-1/-2**

|  |  |  |
| --- | --- | --- |
| Information required for initial evaluation: | Required | Received |
| Complete list of the products to be evaluated |  |  |
| Model/series difference |  |  |
| Installation instruction including grounding, mounting, and connection means |  |  |
| Drawing (Overall, Cross section of the laminate, circuit diagram) |  |  |
| Copy of nameplate for each module |  |  |
| Copy of Trademark |  |  |
| Completed Product Information Worksheet - APPENDIX A |  |  |
| Bill of materials/components (See footnotes on APPENDIX A) |  |  |
| Special handling/storage requirement for the modules, if available |  |  |
| Spectrally matched PV reference devices, if available |  |  |
| Any preconditioning requirements before performing PIV measurements, if available |  |  |
|  |  |  |
| For modifications, following items should additionally be provided: | Required | Received |
| Detailed description of modifications to those modules that have successfully undergone a basic qualification |  |  |
| Declaration letter, that modules are identical to certified product except for the submitted changes |  |  |
|  |  |  |

**APPENDIX A –**

**Product Information Worksheet for IEC61215, IEC61646, IEC61730-1/-2**

|  |  |
| --- | --- |
| Module Specification | |
| Sample type (Random sampling from production or Prototype) |  |
| Type designation or model number |  |
| Application Class (A, B or C) |  |
| Intended for integration roof (yes/no) |  |
| Module weight (kg) |  |
| Module dimensions L x W x H (mm) |  |
| Nominal maximum power at STC, Pmax (W) |  |
| Nominal open circuit voltage at STC, Voc (V) |  |
| Nominal short circuit current at STC, Isc (A) |  |
| Nominal maximum power voltage at STC, Vpm (V) |  |
| Nominal maximum power current at STC, Ipm (A) |  |
| Maximum system voltage (V) |  |
| Maximum over current protection rating (A) |  |
| Safety application class |  |
| Safety class in accordance with IEC 61140 |  |
| Fire safety class |  |
| Recommended maximum series/parallel module configurations |  |
| Module spectral response data (relative or absolute) |  |
| Cell Voltage temperature coefficients (% change/degree C) |  |
| Cell Current temperature coefficients (% change/degree C) |  |
| Vmp temperature coefficients(V/deg. C) |  |
| Imp temperature coefficients (A/deg. C) |  |
| Pmp temperature coefficients (W/deg. C) |  |
| Module VoltageTemperature Co-Efficient (% change / degree C) |  |
| Nominal Operating Cell Temperature (NOCT) |  |
| Critical Component | |
| Front Cover (Superstrate) [\*1] | |
| Manufacturer name |  |
| Type designation |  |
| Rear Cover (Substrate) [\*1] | |
| Manufacturer name |  |
| Type designation |  |
| Encapsulation material [\*1] | |
| Manufacturer name |  |
| Type designation |  |
| Frame [\*1] | |
| Manufacturer name |  |
| Type designation |  |
| Cell [\*1] | |
| Technology (Mono-, Poly, or Thin Film) |  |
| Manufacturer name |  |
| Type designation |  |
| Dimensions L x W (mm) |  |
| Thickness (um +/- um) |  |
| Cell area (cm2) |  |
| Total number of cells |  |
| Number of cells in series |  |
| Number of cells in parallel |  |
| Cell-Cell connector | |
| Material type |  |
| Dimensions L x W (mm) |  |
| Thickness (mm) |  |
| String connector | |
| Material type |  |
| Dimensions L x W (mm) |  |
| Thickness (mm) |  |
| Junction Box [\*1] | |
| Manufacturer name |  |
| Type designation |  |
| Output Cable [\*1] | |
| Manufacturer name |  |
| Type designation |  |
| Connector [\*1] | |
| Manufacturer name |  |
| Type designation |  |
| Bypass Diode [\*1] | |
| Manufacturer name |  |
| Type designation |  |
| Nominal current (A) |  |
| Peak reverse voltage (V) |  |
| Maximum junction temperature rating (degree C) |  |
| Thermal resistance, Rthjc / Rthjl (W/degreeC) |  |
| Cases or heat sinks are accessible (yes/no) |  |
| Number of Bypass Diode |  |
| Number of series cells per bypass diode |  |
| Junction Box Adhesive [\*1] | |
| Manufacturer name |  |
| Type designation |  |
| Potting material [\*1] | |
| Manufacturer name |  |
| Type designation |  |
| Internal Wiring | |
| Manufacturer name |  |
| Type designation |  |
| Soldering material | |
| Material Type |  |
| Configuration |  |
| Frame Adhesive [\*1] | |
| Manufacturer name |  |
| Type designation |  |
| Other | |
|  |  |

Note \*1:

Please provide specification sheet from material/component manufacturer. Please also provide UL file number or appropriate IEC certificate and report if available, in order to confirm the required property.