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

|  |  |  |
| --- | --- | --- |
| Information required for initial evaluation:  | Required | Received |
| Complete list of the products to be evaluated | [x]  | [ ]  |
| Model/series difference | [x]  | [ ]  |
| Installation instruction including grounding, mounting, and connection means | [x]  | [ ]  |
| Drawing (Overall, Cross section of the laminate, circuit diagram) | [x]  | [ ]  |
| Copy of nameplate for each module | [x]  | [ ]  |
| Copy of Trademark | [x]  | [ ]  |
| Completed Product Information Worksheet - APPENDIX A | [x]  | [ ]  |
| Bill of materials/components (See footnotes on APPENDIX A) | [x]  | [ ]  |
| Special handling/storage requirement for the modules, if available | [x]  | [ ]  |
| Spectrally matched PV reference devices, if available | [x]  | [ ]  |
| Any preconditioning requirements before performing PIV measurements, if available | [x]  | [ ]  |
|  | [ ]  | [ ]  |
| 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.