TÜV SÜD – PV Application Form 2	
TÜV SÜD Product Service Ridlerstrasse 65 D-80339 München, GERMANY *www.tuv-sud.de*	

Module Detailed Specifications Form

General Information	
Applicant's Name	
Manufacturing Site(s) & Address(es)	
Authorized Person	
Phone/Fax	
E-mail	
Contact Persont at the Manufacturing Site Name/Phone/Email (if different from Applicant)	

Test program requested

☐ **IEC 61215** ☐ **IEC 61646** ☐ **IEC 61730-2**

Application Class – for IEC 61730

☐ **Class A** ☐ **Class B** ☐ **Class C**

Material/Component/Production Information

Product Detailed Information	**Basic Model Name[1] (to be certified, or previously certified)**	**New Model Name (to be extended)**
Type/Model Designation		
Module total dimensions length x width x thickness (mm x mm x mm)		
Module weight (kg)		
Cell technology *(mono-Si, poly-Si, a-Si, CIS, CdTe, etc.)*		
Cell dimensions L x W (mm x mm)		
Individual cell Area (cm^2)		
Cell thickness (µm)		
Cell part #		

Product Detailed Information	Basic Model Name[1] (to be certified, or previously certified)	New Model Name (to be extended)
Cell manufacturer		
Cell manufacturing location		
Total number of cells		
Number of cells in series		
Number of series strings – attach wiring diagram		
Cells per bypass diode		
Number of bypass diodes		
Bypass Diode Model Name		
Bypass Diode Manufacturer		
Bypass diode rating (A) – attach diode datasheet		
Bypass diode max junction temperature (°C)		
Bypass diode thermal resistance from junction to case (°C/W)		
Bypass Diode Location *(e.g. – junction boxent, laminated)*		
Series fuse rating (A)		
Cell Interconnect material and supplier model no.		
Cell Interconnect cross-sectional area (µm x µm)		
String Interconnect cross-sectional area (µm x µm)		
Solder bonding technique and material		
Superstrate type *(e.g. – strengthened glass, tempered glass etc)*		
Superstrate ModelName		
Superstrate Manufacturer		
Substrate type *(e.g. – tempered glass, Tedlar, TPE, TPT, Polyester, etc)*		
Substrate thickness – by layer (µm/µm/µm)		
Substrate Model Name		
Substrate Manufacturer		
Is the Substrate approved for the partial discharge test? - Yes or No		
Frame type/material		
Frame Adhesive Material Model Name.		
Frame Adhesive Material Manufacturer		

Product Detailed Information	Basic Model Name[1] (to be certified, or previously certified)	New Model Name (to be extended)
Mounting adhesive system used? - Yes or No (If yes, list the type)		
Mounting designed for heavy snow load (5400 Pa)? – Optional, Yes or No		
Does the manufacturer intend to sell frameless modules (laminates)? – Yes or No		
Encapsulant type		
Encapsulant Model Name		
Encapsulant Manufacturer		
Junction Box – type of termination: A: wire or flying lead; B: tags, threaded studs, screws, etc.; C: connector.		
Junction Box Model Name		
Junction Box Manufacturer		
Junction Box approved? – Yes or No		
Junction Box Insulating Material		
Junction box potting material, if any		
Junction Box backing adhesive part no.		
Junction Box backing adhesive manufacturer		
Is junction box intended for use with conduit?		
Cable Model Name		
Cable Manufacturer		
Cable approved? – Yes or No		
Connector Model Name		
Connector Manufacturer		
Connector approved? – Yes or No		

Electrical & Thermal Ratings

Product Detailed Information	Basic Model Name[1] (to be certified, or previously certified)	New Model Name (to be extended)
Maximum system voltage (V)		
V_{oc} (V)		
I_{sc} (A)		
V_{Pmax} (V)		

I_{Pmax} (A)		
P_{max} (W)		
Fill Factor (%)		
Specified minimum rating (W) – For both IEC 61215/1646 rating label		
Optional:		
Voltage temperature coefficient (mV/°C)		
Current temperature coefficient (mA/°C)		
Following only required for IEC 61730:		
superstrate max temperature (°C)		
substrate max temperature (°C)		
Cables and connectors max temperature (C)		
Junction box maximum temperature (°C)		
maximum module reverse current (A)		
minimum distances between cells (mm)		
minimum distances between cell and edge of laminate (mm)		
minimum distances between any current carrying part and edge of laminate (mm)		

We hereby declare that all information provided is true and accurate.

In case of any changes, we will immediately notify TÜV SÜD Product Service prior to extending the existing certification to the modified PV modules.

Manufacturer Signature _____ Date _____

Applicant Signature _____ Date _____
(if different from manufacturer)

Please attach the following components data sheets:

- ☐ Cell
- ☐ Backsheet (including partial discharge IEC 60664-1 certificate, if available)
- ☐ Encapsulant(s)
- ☐ Glass (superstrate)
- ☐ Bypass diode datasheet
- ☐ Junction Box
- ☐ Connectors
- ☐ Cables
- ☐ Electrical circuit diagram attached showing cell- string- bypass diode connections
- ☐ Installation Manual
- ☐ Other relevant details