

# Certificate

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Report No.: 21203541-1

**License Holder:****Kyocera Corporation**Solar Energy Division  
6 Takeda Tobadono-cho  
Fushimi-ku, Kyoto  
612-8501 Japan**Product:****PV Modules**Type: **KC190GHT-2; KC170GHT-2;  
KC167GHT-2; KC125GHT-2;  
KC190GT-2; KC170GT-2;  
KC167GT-2; KC125GT-2;****Manufacturing Plant:**Kyocera Corporation  
Mie Ise Plant  
600-10 Shimono-Cho  
Ise, Mie 516-8510 Japan**Basis:** **TÜV Spec TZE/2.572.09**  
"Safety Class II Test on  
Photovoltaic (PV) Modules" **Factory Inspection**  
To document the consistent quality of  
the product factory inspections are  
performed periodically.

- Qualified, IEC 61215
- Safety tested,  
TUV-Spec 931/2.572.9
- Periodic Inspection

**Remarks:**

The above mentioned PV modules may be used in PV plants at a maximum system voltage (Voc at STC) of up to

**1000 VDC** for GHT modules and of up to **750 VDC** for GT modules.

The module types have been developed from the PV module types KC125/167GH-2 and KC125/167G-2 (reports no.: 21201644, 435/122779).

**Differences:** The number and thickness of busbars on cells, thickness of cells (0.3mm → 0.22mm),  
**Construction:** Glass/EVA/Cells/EVA/ backsheet foil PET/PET/PET (1000VDC) or PVF/PET/PVF (750VDC), Kyocera junction box T-type with 2/3x3 bypass diodes and potted outlet area, fix connected cable (Hitachi SL-H-VCT) with MC connectors, Aluminium frame, 36/48/54 polycrystalline cells (155mmx150mm)**Conditions:**

The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval. The certificate is only valid in conjunction with proof of the suitability of the modules in accordance with IEC 61215 (or similar procedure).

**The certificate has a validity of 5 years counting from the date of issue, provided that the testing basis remains unchanged.**

Renewable Energies



Dipl.-Ing. W. Vaaßen

Cologne, 08 February 2005