

TÜV Rheinland Energie und Umwelt GmbH
51101 Köln

Hyundai Heavy Industries Co., Ltd.
1, Jeonha-dong, Dong-gu
Ulsan, 682-792
Rep. of Korea

Sascha Menzler
Tel. ++49-221/806-2954
Fax ++49-221/806-1350
Mail enertest@de.tuv.com
Web www.tuv.com/pv
Cologne, 01 July 2011

**Declaration
- 21215917 -**

Manufacturer: Hyundai Heavy Industries Co., Ltd.
169-1, Daejang-Ri, Soi-Myon, Eumseong-Kun
Chungcheongbuk-Do 369-872
Rep. of Korea

Product: PV-Modules
Type : HIS-MxxxSF
HIS-MxxxSG
HIS-SxxxSF
HIS-SxxxSg
HIS-MxxxMF
HIS-MxxxMG
HIS-SxxxMF
HIS-SxxxMG

Basis of testing: IEC 62716 Draft C, *Ammonia corrosion testing of photovoltaic (PV) modules*

Test results:


Herewith it is declared, that the above mentioned modules fulfil the requirements of the Ammonia Resistance Test. The measurements included power measurement, insulation testing and visual inspections. The maximum permissible power degradation of 5 % was not exceeded. Furthermore the minimum insulation requirements as defined in IEC 61215:2005 were met. No major visual defects as defined in IEC 61215 section 7 were found.

Renewable Energies

i. A.


Dipl.-Ing. L. Jakisch

i. A.


Dipl.-Ing. S. Menzler

TÜV Rheinland
Energie und Umwelt GmbH

Am Grauen Stein
51105 Köln
Germany

Tel. ++49-221/806-2477
Fax ++49-221/806-1350
Mail enertest@de.tuv.com
Web www.umwelt-tuv.de

Managing Director
Eckhard Lippold

Amtsgericht Köln HRB 56171