

# Certificate

Registration No.: PV 60020390

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Report No.: 21207105-2

**License Holder:**

SANYO Electric Co., Ltd.  
Clean Energy Company  
15-2, Nishiki, Minami-Machi  
Kaizuka City, Osaka, 579-0094  
Japan

**Product:**

PV Modules

Type: HIP-210HDEx; HIP-210HDEx-2;  
HIP-215HDEx; HIP-215HDEx-2;  
HIP-220HDEx; HIP-220HDEx-2;  
HIP-225HDEx; HIP-225HDEx-2;  
HIP-230HDEx; HIP-230HDEx-2.  
X stands for 1, 2, 3 and represents different internal  
connections and dimensions

**Manufacturing Plant:**

Sanyo Hungary Kft.  
Ipari park  
2510 Dorog  
Hungary

**Basis:**

- IEC 61730-1:2004  
IEC 61730-2:2004  
EN 61730-1:2007  
EN 61730-2:2007  
"Photovoltaic (PV) module safety  
qualification"



- Qualified, IEC 61215
- Safety tested,  
IEC 61730
- Periodic Inspection

- Factory Inspection**  
To document the consistent quality of  
the product factory inspections are  
performed periodically.

**Remarks:**

- IEC EN 61730 consists of part 1 ( Requirements for construction) and part 2 (Requirements for testing).
- The above listed PV modules fulfil the requirements of Application Cass A (Safety Class II ). They may be used in PV plants  
at a maximum system voltage (Voc at STC) of up to **1000 VDC**.
- The fire test (IEC 61730-2 / MST 23) was not performed.
- The details of the factory inspection are documented in report no. 21208174.

**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 valid until 09.11.2012.**



Certification body

Cologne, 18 January 2008

Dipl.-Ing. M. Adrian