

# Certificate

Registration No.: PV 60029818

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Report No.: 21148223.001

**License Holder:**

**Bosch Solar Energy AG**  
Wilhelm-Wolff-Straße 23  
99099 Erfurt  
Germany

**Product:**

**PV Module**

Type: **Bosch Solar Module c-Si M 60**  
(power range: 220 - 260 W in 5 W steps)

**Bosch Solar Module c-Si P 60**  
(power range: 180 – 235 W in 5 W steps)

**Bosch Solar Module c-Si M 48**  
(power range: 175 - 210 W in 5 W steps)

**Bosch Solar Module c-Si P 48**  
(power range: 150 - 190 W in 5 W steps)

**Original License Holder:**

Open Renewables, SA  
ZI Almerim Rua B No 11, Ap. 332  
7002-506 Évora  
Portugal

**Basis:**

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

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



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

**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 Class 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.

**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 8 July 2014.**



Cologne, 14 April 2010

Dipl.-Ing. M. Adrian