

# Certificate

Registration No.: PV 60028493

Page 1

Report No.: 21145572.001

**License Holder:**  
**Exel Group S.A.**  
18<sup>th</sup> Klm Thessaloniki – Ag. Athanas  
57008 Thessaloniki  
Greece

**Product:**  
PV Module  
**Type:**  
ESP series 60  
(with power range 195 – 240 W)

**Manufacturing Plant:**  
Exel Group S.A.  
Industrial Area of Stavrochori  
OT 20, Road 12  
61100 Kilkis  
Greece

**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
- Heavy Snow Load tested
- 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.
- The details of the factory inspection are documented in report no. 21212906.
- The mechanical load test of EN IEC 61215:2005 was performed with a load of 5400.

**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 11 December 2014.**

Cologne, 20 January 2010



Dipl.-Ing. M. Adrian