



# C E R T I F I C A T E

**Certificate No. 11-PPV-000610/01-W01-TIC**

**WE HEREBY CERTIFY THAT THE PHOTOVOLTAIC MODULES WITH THE MODEL**

**XR12-88**  
(Tested Type)

**And with Types extended for similarity\***  
**- See Annex -**

**MANUFACTURING & LICENSE HOLDER**

**Xunlight Corporation**

3145 Nebraska Ave., Toledo, OH, USA 43607

&

No.199,Yuan Feng Rd., Kunshan City, Jiangsu Province, China

**IS IN COMPLIANCE WITH THE REQUIREMENTS OF**

**IEC 61646 : 2008**

Thin-film terrestrial photovoltaic (PV) modules. Design qualification and type approval  
&

**EN 61730-1 : 2007 / EN 61730-2 : 2007**

Photovoltaic (PV) module safety qualification

To be used in plants at a total voltage up to : 1000 Vdc (application Class A)

**AS RESULT OF THE TEST IN OUR APPOINTED LABORATORY**

**EA ACCREDITED LABORATORY N. 0192**

**REPORT No. TIC-PVQ01-R1-18106-100192, TIC-PS101-R1-18106-100192, TIC-PS201-R1-18106-100192**

&

**THE MANUFACTURING INSPECTION ON THE DATE 26<sup>th</sup> FEBRUARY 2011 & 09<sup>th</sup> MARCH 2011 WITH**

**REPORT No. RFI-0211-PPV-TIC-0006110 & RFI-0311-PPV-TIC-0006110**

**Expiring date 14.12.2015**

*( Providing that the testing basis continues unchanged )*

**Notes: (\*)** The manufacturer declares that these products are constructed using the same materials, components and processes as the tested type XR12-88. Further details on certified models are reported on the attachment. Technical data, materials and components description are into the indicated test reports. Any changes of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval. The certification is performed on tested model as complete certification. This certificate is for type approval and based on voluntarily product test. The Manufacturing Inspection is conducted by TÜV INTERCERT on the base of the internal procedures.



DAT-ZE-030/09-00



Am Bonner Bogen 2, D-53227 Bonn, 15.04.2011

Dipl.-Ing. F. Sergiozzarea

TÜV INTERCERT Certification Body

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# C E R T I F I C A T E

## Annex of

**Certificate No. 11-PPV-000610/01-W01-TIC**

### THE PHOTOVOLTAIC MODULES WITH THE MODELS

| Tested Type | Cell Number | Cell Size  | Cell Technology | Power |
|-------------|-------------|------------|-----------------|-------|
| XR12-88     | 12          | 432x279 mm | 3j-a-Si         | 88 W  |

**Types extended for similarity\* with 3j-a-Si cell technology without need of re-testing**  
(according to IEC61215 "Retesting guideline"):

| Type  | Cell Number | Cell Size  | Power [W]            |
|-------|-------------|------------|----------------------|
| XR36  | 36          | 432x279 mm | from 237W up to 291W |
| XR38  | 38          | 432x279 mm | from 250W up to 307W |
| XRS18 | 18          | 432x279 mm | from 119W up to 146W |
| XRS19 | 19          | 432x279 mm | from 125W up to 154W |
| XR12  | 12          | 432x279 mm | from 79W up to 97W   |

**Notes:** (\*) The manufacturer declares that these products are constructed using the same materials, components and processes as the tested type XR12-88. Further details on certified models are reported on the attachment. Technical data, materials and components description are into the indicated test reports. Any changes of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval. The certification is performed on tested model as complete certification. This certificate is for type approval and based on voluntarily product test. The Manufacturing Inspection is conducted by TÜV INTERCERT on the base of the internal procedures.



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