

# Certificate

Registration No.: PV 60028874

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Report No.: 21146306.001

**Licence holder:**

asola – Advanced and Automotive  
Solar Systems GmbH  
Konrad-Zuse-Straße 25  
99099 Erfurt  
Germany

**Product:**

PV Module

Type:

asola XXYW/60–156EM3BB	asola XXYW/60–156AP2BB
asola XXYW/60–156EM3BB/2	asola XXYW/60–156AP2BB/2
asola XXZW/54–156EM3BB	asola XXZW/54–156AP2BB
asola ZZZW/48 –156EM3BB/1	asola ZZZW/48 –156AP2BB/1
asola ZZZW/48 –156EM3BB/2	asola ZZZW/48 –156AP2BB/2
asola XXXW/40–156EM3BB	asola XXXW/40–156AP2BB

**Manufacturing plant :**

asola – Advanced and Automotive  
Solar Systems GmbH  
Konrad-Zuse-Straße 25  
99099 Erfurt  
Germany

asola YYYW/72–156MP2BB	asola YYYW/72–156QPG2BB
asola XXYW/60–156MP2BB	asola XXYW/60–156QPG2BB
asola XXYW/60–156MP2BB/2	asola XXYW/60–156QPG2BB/2
asola XXZW/54–156MP2BB	asola XXZW/54–156QPG2BB
asola XYYW/48–156MP2BB	asola XYYW/48–156QPG2BB
asola ZZZW/48 –156MP2BB/1	asola ZZZW/48 –156QPG2BB/1
asola ZZZW/48 –156MP2BB/2	asola ZZZW/48 –156QPG2BB/2
asola XXXW/40–156MP2BB	asola XXXW/40–156QPG2BB

power range, in 5 W steps each :

XXX = 140 W-155 W, XXY = 205 W-235 W, XYY = 150 W-180 W  
YYY = 240 W-290 W, ZZZ = 150 W-180W, XXZ = 195 W-220 W

**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.

- 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. 21210040.
- This certificate replaces certificate no. PV 60024164.

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 9 February 2014.**



Cologne, 12 February 2010

Dipl.-Ing. M. Adrian

# Certificate

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**asola – Advanced and Automotive  
Solar Systems GmbH**  
Konrad-Zuse-Straße 25  
99099 Erfurt  
Germany

**Product:**

PV Module

**Type:**

asola YYYW/72–156MP3BB  
asola XXYW/60–156MP3BB  
asola XXYW/60–156MP3BB/2  
asola XXZW/54–156MP3BB  
asola XYYW/48–156MP3BB  
asola ZZZW/48–156MP3BB/1  
asola ZZZW/48–156MP3BB/2  
asola XXXW/40–156MP3BB

asola YYYW/72–156QP3BB  
asola XXYW/60–156QP3BB  
asola XXYW/60–156QP3BB/2  
asola XXZW/54–156QP3BB  
asola XYYW/48–156QP3BB  
asola ZZZW/48–156QP3BB/1  
asola ZZZW/48–156QP3BB/2  
asola XXXW/40–156QP3BB

**Manufacturing plant :**

**asola – Advanced and Automotive  
Solar Systems GmbH**  
Konrad-Zuse-Straße 25  
99099 Erfurt  
Germany

asola XXYW/60–156SP2BB  
asola XXYW/60–156SP2BB/2  
asola XXZW/54–156SP2BB  
asola ZZZW/48–156SP2BB/1  
asola ZZZW/48–156SP2BB/2  
asola XXXW/40–156SP2BB

asola XXYW/60–156QP2BB  
asola XXYW/60–156QP2BB/2  
asola XXZW/54–156QP2BB  
asola ZZZW/48–156QP2BB/1  
asola ZZZW/48–156QP2BB/2  
asola XXXW/40–156QP2BB

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**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**  
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**The certificate is valid until 9 February 2014.**



Cologne, 12 February 2010

Dipl.-Ing. M. Adrian