

Certificate



Registration No.: PV 60092719

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Report No.: 21211403.009

License Holder:

Astronergy Solarmodule GmbH
Chint-Allee 8
15236 Frankfurt (Oder)
Germany

Manufacturing Plant:

ml&s manufacturing, logistics and services
GmbH und Co. KG
Siemensallee 1
17489 Greifswald
Germany

Product:

PV Modules

Type:

with 6" poly cells

ASM6612P xxx

(72 cell module with xxx = 280 - 340 in steps of 5)

ASM6610P xxx

(60 cell module with xxx = 200 - 280 in steps of 5)

ASM6610PL xxx

(60 cell laminate with xxx = 200 - 280 in steps of 5)

ASM668P xxx

(48 cell module with xxx = 170 - 215 in steps of 5)

ASM668PL xxx

(48 cell laminate with xxx = 170 - 215 in steps of 5)

with 6" mono cells

ASM6610M xxx

(60 cell module with xxx = 200 - 285 in steps of 5)

ASM668M xxx

(48 cell module with xxx = 170 - 220 in steps of 5)

ASM668ML xxx

(48 cell laminate with xxx = 170 - 220 in steps of 5)

xxx represent output power in Wp

Basis:



IEC 61730-1:2004+A1+A2
IEC 61730-2:2004+A1
EN 61730-1:2007+A1+A2+A11
EN 61730-2:2007+A1
"Photovoltaic (PV) module safety
qualification"



Factory Inspection

To document the consistent quality of
the product, factory inspections are
performed periodically.



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Remarks:

- Valid in conjunction with TÜV Rheinland certificate based on IEC EN 61215.
- The above listed PV modules fulfil the requirements of Application **Class A** (Class II acc. to IEC 61140). They may be used in PV plants at a maximum system voltage (Voc at STC) of up to **1000 VDC**.
- The above listed PV modules fulfil the requirements of **fire rating class C**.
- The mechanical load test of EN IEC 61215:2005 was performed for module types ASM6610PL, ASM668PL and ASM668ML with a load of **5400 Pa**, and for module types ASM6610P, ASM6610M, ASM668P and ASM668M with a load of **6000 Pa**.
- Extension to new module type ASM6612P and additional manufacturing plant.

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 13 February 2018.

Cologne, 11 August 2015



Dipl.-Ing. M. Adrian