

Shanghai Aerospace Automobile
Electromechanical Co., Ltd.
Han Kaimin

Date : 13.12.2017
Our ref. : LND 01
Your ref.: H.K.M

222 Caoxi Rd, the 8th Floor of
Spaceflight Building
Shanghai 200235
P. R. China

Ref : PV Photovoltaic Modules

Type of Equipment : PV-Module
Model Designation : See Certificate
Certificate No. : PV 50395676 0001
Report No. : 50115369 001

Dear Han Kaimin,

Thank you very much for your interest in our services.

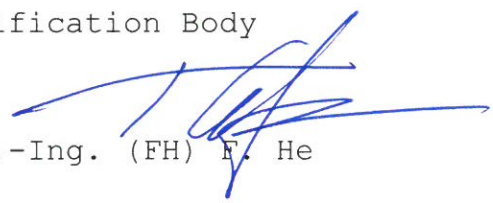
Please find enclosed your certification documents.

We appreciate your support and would like to offer our assistance in the approval of your future products through our extensive range of technical services.

Please feel free to contact us whatever your requirements may be.

With kind regards,

Certification Body


Dipl.-Ing. (FH) F. He

cc: Shanghai Aerospace Automobile

Enclosure

证书的详细资料请登陆www.certipedia.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
PV 50395676

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0001

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>
H.K.M	01-LND-50115369 001	13.12.2017 (day/mo/yr)

Genehmigungsinhaber *License Holder*

Shanghai Aerospace Automobile
Electromechanical Co., Ltd.
222 Caoxi Rd, the 8th Floor of
Spaceflight Building
Shanghai 200235
P. R. China

Fertigungsstätte *Manufacturing Plant*

Lianyungang Shenzhou New
Energy Co., Ltd.
No.8 Xiamen Road,
Ganyu Economic Development Zone
Lianyungang, Jiangsu 222100,
P. R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 61215:2005
IEC 61215:2005
EN 61730-1:2007+A1+A2+A11
IEC 61730-1:2004+A1+A2
EN 61730-2:2007+A1
IEC 61730-2:2004+A1

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

PV-Module

Type Designation:

With 6" mono c-Si cells:

HT72-156M-XXX (XXX=260-395, in steps of 5, 72 cells)
HT60-156M-XXX (XXX=215-330, in steps of 5, 60 cells)
HT54-156M-XXX (XXX=195-295, in steps of 5, 54 cells)
HT50-156M-XXX (XXX=225-250, in steps of 5, 50 cells)
HT48-156M-XXX (XXX=170-260, in steps of 5, 48 cells)
HT36-156M-XXX (XXX=130-195, in steps of 5, 36 cells)
HT72-156M(N)-XXX (XXX=295-355, in steps of 5, 72 cells)
HT60-156M(N)-XXX (XXX=245-300, in steps of 5, 60 cells)
HT54-156M(N)-XXX (XXX=220-270, in steps of 5, 54 cells)
HT48-156M(N)-XXX (XXX=200-240, in steps of 5, 48 cells)
HT36-156M(N)-XXX (XXX=145-180, in steps of 5, 36 cells)
HT72-156M-4BB-XXX (XXX=260-360, in steps of 5, 72 cells)
HT60-156M-4BB-XXX (XXX=215-300, in steps of 5, 60 cells)

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Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

Zertifizierungsstelle



Dipl.-Ing. (FH) F. He

Zertifikat

Certificate



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PV 50395676

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0002

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EN 61730-2:2007+A1
IEC 61730-2:2004+A1

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

PV-Module

Continuation of Page 1

With 6" mono c-Si cells:

HT60-156M(ND)-XXX, HT60-156M(ND)-F-XXX
(XXX=245-300, in steps of 5, 60 cells)
HT54-156M(ND)-XXX, HT54-156M(ND)-F-XXX
(XXX=220-270, in steps of 5, 54 cells)
HT48-156M(ND)-XXX, HT48-156M(ND)-F-XXX
(XXX=200-240, in steps of 5, 48 cells)
HT42-156M(ND)-XXX, HT42-156M(ND)-F-XXX
(XXX=170-210, in steps of 5, 42 cells)
HT60-156M(PD)-XXX, HT60-156M(PD)-F-XXX
(XXX=250-305, in steps of 5, 60 cells)
HT54-156M(PD)-XXX, HT54-156M(PD)-F-XXX
(XXX=225-270, in steps of 5, 54 cells)
HT48-156M(PD)-XXX, HT48-156M(PD)-F-XXX
(XXX=200-240, in steps of 5, 48 cells)
HT42-156M(PD)-XXX, HT42-156M(PD)-F-XXX
(XXX=175-210, in steps of 5, 42 cells)
HT36-156M(PD)-XXX, HT36-156M(PD)-F-XXX
(XXX=150-180, in steps of 5, 36 cells)

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Fax: +49 221 806-3935 http://www.tuv.com/safety

Zertifizierungsstelle

Dipl.-Ing. (FH) F. He

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0003

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Fertigungsstätte *Manufacturing Plant*

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Lianyungang, Jiangsu 222100,
P. R. China

Prüfzeichen *Test Mark*



IEC 61215
IEC 61730
Regular Production
Surveillance

www.tuv.com
ID 1419053642

Geprüft nach *Tested acc. to*

EN 61215:2005
IEC 61215:2005
EN 61730-1:2007+A1+A2+A11
IEC 61730-1:2004+A1+A2
EN 61730-2:2007+A1
IEC 61730-2:2004+A1

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

PV-Module

Continuation of Page 2

With 6" poly c-Si cells:

HT72-156P-XXX (XXX=255-370, in steps of 5, 72 cells)
HT60-156P-XXX (XXX=210-305, in steps of 5, 60 cells)
HT54-156P-XXX (XXX=190-275, in steps of 5, 54 cells)
HT50-156P-XXX (XXX=215-235, in steps of 5, 50 cells)
HT48-156P-XXX (XXX=170-245, in steps of 5, 48 cells)
HT36-156P-XXX (XXX=125-185, in steps of 5, 36 cells)
HT72-156P-4BB-XXX (XXX=255-340, in steps of 5, 72 cells)
HT60-156P-4BB-XXX (XXX=210-280, in steps of 5, 60 cells)
HT60-156P(PD)-XXX, HT60-156P(PD)-F-XXX
(XXX=245-295, in steps of 5, 60 cells)
HT54-156P(PD)-XXX, HT54-156P(PD)-F-XXX
(XXX=215-260, in steps of 5, 54 cells)
HT48-156P(PD)-XXX, HT48-156P(PD)-F-XXX
(XXX=195-230, in steps of 5, 48 cells)
HT42-156P(PD)-XXX, HT42-156P(PD)-F-XXX
(XXX=170-200, in steps of 5, 42 cells)
HT36-156P(PD)-XXX, HT36-156P(PD)-F-XXX
(XXX=145-170, in steps of 5, 36 cells)

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Zertifizierungsstelle



Dipl.-Ing. (FH) F. He

Zertifikat

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P. R. China

Fertigungsstätte *Manufacturing Plant*

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P. R. China

Prüfzeichen *Test Mark*



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EN 61215:2005
IEC 61215:2005
EN 61730-1:2007+A1+A2+A11
IEC 61730-1:2004+A1+A2
EN 61730-2:2007+A1
IEC 61730-2:2004+A1

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

PV-Module

Continuation of Page 3

With 5" mono c-Si cells:

HT96-125M-XXX (XXX=225-305, in steps of 5, 96 cells)
HT72-125M-XXX (XXX=170-225, in steps of 5, 72 cells)
HT36-125M-XXX (XXX=070-110, in steps of 5, 36 cells)

Remarks:

- 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.

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 12 December 2022.

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Shanghai 200235
P. R. China

Fertigungsstätte *Manufacturing Plant*

HT SOLAR ENERJI A.S.
Industry and Trade Free Zone
Aydinli SB. Dist. 1.Street No:1
34957 Tuzla/Istanbul
Turkey

Prüfzeichen *Test Mark*



IEC 61215
IEC 61730
Regular Production
Surveillance

www.tuv.com
ID 1419053642

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IEC 61730-2:2004+A1

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

PV-Module

Type Designation:
Same as Page 1-4

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Remarks:

- Additional manufacturing plant see above.

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