



## Certificate of Factory Production Control

This certificate has been issued to

**Tangshan Haitai New Energy Technology Co., Ltd.**

of

No.88 Haomen Road  
Yutai Industrial Zone  
Yutian County  
Tangshan City  
Hebei Province  
064100  
People's Republic of China

whose production management system has been assessed and found to comply with the Factory Production Control Requirements of the MCS Product Certification Scheme in respect of:

### Production of Photovoltaic Solar Panels

at the address(s) listed on the Annex of this certificate

and includes the ranges of

### Photovoltaic Solar Panels

as detailed on the attached annex to this certificate

Signed: 

on behalf of TUV SUD BABT UNLIMITED

Certificate Number: BABT 8777 R2

Valid from: 21 May 2023

This Certificate expires on:

20 May 2026



CERTIFIED

The holder of this certificate is authorised to use the MCS Approved Product Mark. This certificate has been issued in accordance with the Testing and Certification Regulations of TÜV SÜD. Conditions of validity of this certificate, if any, are listed in the Annex. This certificate constitutes page 1 of the combined Certificate and Annex.

For further details related to this certification please contact [BABT@tuvsud.com](mailto:BABT@tuvsud.com)

# Annex to Factory Production Control Requirement Microgeneration Certification Scheme



## 1 Manufacturing Location

Facility 1	Facility 2
Tangshan Haitai New Energy Technology Co., Ltd. No.88 Haomen Road, Yutai Industrial Zone, Yutian County, Tangshan City, Hebei Province, 064100, P.R.China	HT Solar Vietnam Company Limited Factory F3-1 and F3-2, Lot F3, Trang Due Industrial Park, A part of Dinh Vu-Cat Hai Economic Zone, Hong Phong Commune, An Duong District, Hai Phong City, Vietnam

## 2 Established Conformity

### 2.1 Product Certification Scheme Requirements

Microgeneration Certification Scheme	Revision	Applicability
MCS 005 – Solar Photovoltaic Modules	Issue 3.1	<input checked="" type="checkbox"/>
MCS 010 – Factory Production Control Requirements	Issue 2.0	<input checked="" type="checkbox"/>
MCS 012 – Pitched Roof Installation Kits	Issue N/A	<input type="checkbox"/>
MCS 017 – Bespoke Building Integrated Photovoltaic Products	Issue N/A	<input type="checkbox"/>

### 2.2 Assessment Report

Assessment Report Number	Issue Number	Issue Date
BABT 8777 R1	1	22/11/2022

## 3 Technical Documentation

### 3.1 User Guide

Installation Instructions Modified 25/03/2021

### 3.2 Test Reports

88.216.17.261.01	Issued	05/05/2018
88.216.17.261.02	Issued	20/05/2018
88.216.17.261.02_a	Issued	18/10/2018
88.216.18.095.01	Issued	18/11/2018
88.216.17.261.03	Issued	25/11/2018
88.216.18.095.02	Issued	18/02/2019
88.216.18.095.03	Issued	18/03/2019
88.216.18.095.04	Issued	08/07/2019
88.216.18.095.05	Issued	22/10/2019
88.216.18.095.05_a	Issued	08/11/2019
88.216.18.095.06	Issued	17/03/2020
88.216.17.262.01	Issued	05/05/2018
88.216.17.262.02	Issued	20/05/2018
88.216.17.262.03	Issued	18/10/2018
88.216.18.096.01	Issued	18/11/2018
88.216.17.262.04	Issued	25/11/2018
88.216.18.096.02	Issued	18/02/2019

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88.216.18.096.03	Issued	14/03/2019
88.216.18.096.04	Issued	25/05/2019
88.216.18.096.05	Issued	25/06/2019
88.216.18.096.06	Issued	22/07/2019
88.216.18.095.08	Issued	15/10/2020
88.216.18.095.08_a	Issued	15/12/2020
88.216.18.095.09	Issued	20/02/2021
88.216.18.095.11	Issued	27/05/2021
88.216.18.095.12	Issued	18/10/2021
88.216.18.095.12_a	Issued	30/11/2021
88.216.18.095.12_b	Issued	12/01/2022

## 4 Products Within Scope of Certification

### 4.1 MCS 005: Solar Photovoltaic Modules

Product Type	Product Name <sup>Note 1</sup>	Power Range (W) <sup>Note 2</sup>	Certification Number
Monocrystalline	HTMxxxMA-72	330 - 385	BABT8777-001
Monocrystalline	HTMxxxMA-60	275 - 320	BABT8777-002
Monocrystalline	HTMxxxMA-54	250 - 285	BABT8777-003
Monocrystalline	HTMxxxMH-72	340 - 390	BABT8777-004
Monocrystalline	HTMxxxMH-60	285 - 325	BABT8777-005
Monocrystalline	HTMxxxMH-54	255 - 290	BABT8777-006
Monocrystalline	HTMxxxMH2-72	390 - 425	BABT8777-007
Monocrystalline	HTMxxxMH2-60	325 - 350	BABT8777-008
Monocrystalline	HTM-TSB-xxxM1	380 - 420	BABT8777-009
Monocrystalline	HTM-TSA-xxxM1	315 - 345	BABT8777-010
Monocrystalline	HTM-NHN-xxxM	315 - 345 380 - 420	BABT8777-011
Monocrystalline	HTM-TSB-xxxM2	410 - 445	BABT8777-012
Monocrystalline	HTM-TSA-xxxM2	340 - 365	BABT8777-013
Monocrystalline	HTMxxxMA-72(1500)	340 - 385	BABT8777-014
Monocrystalline	HTMxxxMA-60(1500)	285 - 320	BABT8777-015
Monocrystalline	HTMxxxMA-54(1500)	255 - 285	BABT8777-016
Monocrystalline	HTMxxxMH-72(1500)	340 - 390	BABT8777-017
Monocrystalline	HTMxxxMH-60(1500)	285 - 325	BABT8777-018
Monocrystalline	HTMxxxMH-54(1500)	255 - 290	BABT8777-019
Monocrystalline	HTMxxxMH2-72(1500)	390 - 425	BABT8777-020
Monocrystalline	HTMxxxMH2-60(1500)	325 - 350	BABT8777-021
Monocrystalline	HTM-TSB-xxxM1(1500)	380 - 420	BABT8777-022
Monocrystalline	HTM-TSA-xxxM1(1500)	315 - 345	BABT8777-023
Monocrystalline	HTM-NHN-xxxM(1500)	315 - 345 380 - 420	BABT8777-024
Monocrystalline	HTM-TSB-xxxM2(1500)	410 - 445	BABT8777-025

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Product Type	Product Name <sup>Note 1</sup>	Power Range (W) <sup>Note 2</sup>	Certification Number
Monocrystalline	HTM-TSA-xxxM2(1500)	340 - 365	BABT8777-026
Polycrystalline	HTMxxxPA-72	315 - 355	BABT8777-027
Polycrystalline	HTMxxxPA-60	265 - 295	BABT8777-028
Polycrystalline	HTMxxxPA-54	240 - 265	BABT8777-029
Polycrystalline	HTMxxxPH-72	325 - 350	BABT8777-030
Polycrystalline	HTMxxxPH-60	270 - 290	BABT8777-031
Polycrystalline	HTMxxxPH-54	245 - 260	BABT8777-032
Polycrystalline	HTM-TSB-xxxP1	360 - 390	BABT8777-033
Polycrystalline	HTM-TSA-xxxP1	300 - 320	BABT8777-034
Polycrystalline	HTM-NHN-xxxP	300 - 320 360 - 390	BABT8777-035
Polycrystalline	HTMxxxPA-72(1500)	320 - 355	BABT8777-036
Polycrystalline	HTMxxxPA-60(1500)	270 - 295	BABT8777-037
Polycrystalline	HTMxxxPA-54(1500)	240 - 265	BABT8777-038
Polycrystalline	HTMxxxPH-72(1500)	325 - 350	BABT8777-039
Polycrystalline	HTMxxxPH-60(1500)	270 - 290	BABT8777-040
Polycrystalline	HTMxxxPH-54(1500)	245 - 260	BABT8777-041
Polycrystalline	HTM-TSB-xxxP1(1500)	360 - 390	BABT8777-042
Polycrystalline	HTM-TSA-xxxP1(1500)	300 - 320	BABT8777-043
Polycrystalline	HTM-NHN-xxxP(1500)	300 - 320 360 - 390	BABT8777-044
Monocrystalline	HTMxxxMH3-72	415 - 460	BABT8777-045
Monocrystalline	HTMxxxMH3-60	345 - 380	BABT8777-046
Monocrystalline	HTMxxxMH5-72	520 - 555	BABT8777-047
Monocrystalline	HTMxxxMH5-66	480 - 505	BABT8777-048
Monocrystalline	HTMxxxMH5-60	435 - 460	BABT8777-049
Monocrystalline	HTMxxxMH5-54	390 - 415	BABT8777-050
Monocrystalline	HTMxxxMH8-66	635 - 670	BABT8777-051
Monocrystalline	HTMxxxMH8-60	580 - 605	BABT8777-052
Monocrystalline	HTMxxxMT8-50	480 - 510	BABT8777-053
Monocrystalline	HTMxxxMT8-40	385 - 405	BABT8777-054
Monocrystalline	HTMxxxMH3-72(1500)	415 - 460	BABT8777-055
Monocrystalline	HTMxxxMH3-60(1500)	345 - 380	BABT8777-056
Monocrystalline	HTMxxxMH5-72(1500)	520 - 555	BABT8777-057
Monocrystalline	HTMxxxMH5-66(1500)	480 - 505	BABT8777-058
Monocrystalline	HTMxxxMH5-60(1500)	435 - 460	BABT8777-059
Monocrystalline	HTMxxxMH5-54(1500)	390 - 415	BABT8777-060
Monocrystalline	HTMxxxMH8-66(1500)	635 - 670	BABT8777-061

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Product Type	Product Name <sup>Note 1</sup>	Power Range (W) <sup>Note 2</sup>	Certification Number
Monocrystalline	HTMxxxMH8-60(1500)	580 - 605	BABT8777-062
Monocrystalline	HTMxxxMT8-50(1500)	480 - 510	BABT8777-063
Monocrystalline	HTMxxxMT8-40(1500)	385 - 405	BABT8777-064

Note 1: where xxx = output power rating in W  
Note 2: in steps of 5 W

## 5 Additional Information


All products within the scope of this certification shall be listed on the MCS Installations Database for the duration of this certificates validity. The database shall contain an entry for each individual power rating for the certified product, where the power rating shall be suffixed to the certificate number as listed on this certificate.

## 6 Conditions of Validity

This certificate authorizes the manufacturer or their authorized representative to apply the MCS Approved Product Mark to the range of products listed within this certification in accordance with the MCS Manufacturers / Distributors agreement dated **20th April 2020**.

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved equipment or the approved quality system, which have not been notified to, and agreed with TUV SUD BABT UNLIMITED or a person appointed by TUV SUD BABT UNLIMITED to perform that role.

The manufacturer must immediately cease affixing the MCS Approved Product Mark on any product subject to expiry, withdrawal or suspension of this certification.

Signature: 	Date: 2023-05-21
Print Name: Stephen Milliken	
On behalf of TUV SUD BABT UNLIMITED	