



Certificate of Factory Production Control

This certificate has been issued to

Sharp Electronics GmbH

of

Nagelsweg 33 – 35
Hamburg
20097
Germany

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

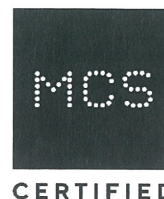
Signed: 

on behalf of TUV SUD BAPT UNLIMITED

Certificate Number: BAPT 8775 R0

Valid from: 12 March 2020

This Certificate expires on: 12 March 2023



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 BAPT@tuv-sud.co.uk

Annex to Factory Production Control Requirement Microgeneration Certification Scheme

1 Manufacturing Location

Facility 1	Facility 2
Jinzhou Yangguang Energy Co., Ltd. Xihai Industry Park, Economic and Technical Development Zone, Jinzhou, Liaoning 121007, P.R.China	Jinzhou Yangguang Motech New Energy Co., Ltd. No.2 factory, Xihai Industry Park, Heilong-jiang Road, Economic and Technical Development Zone, Jinzhou, Liaoning 121007, P.R.China

Facility 3
Jinzhou Chuanghui New Energy Co., Ltd. No.7, 3 Section, Longxiwan Avenue, Binhai New District, Jinzhou, Liaoning 121004, P.R.China

2 Established Conformity

2.1 Product Certification Scheme Requirements

Microgeneration Certification Scheme	Revision	Applicability
MCS 005 – Solar Photovoltaic Modules	Issue 3.0	<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 8772 R0 Assessment Report	1	10/02/2020

3 Technical Documentation

3.1 Declaration of Conformity

Declaration of Conformity Dated 19/02/2020

3.2 User Guide

NDAF330C Installation Manual EN VSIM01E-001	Modified	26/03/2019
NDAC NUAC NUAC(B) Installation Manual EN VSIM01E-002	Modified	20/05/2019
NUAFxxx (1000V) Installation Manual EN VSIM01E-003	Modified	04/06/2019
NUAF380C Installation Manual SIM01E-009	Modified	19/02/2020
NU-JB395 Installation Manual EN VSIM02E-001	Modified	19/02/2020
NUJC330 NUC320B Installation Manual EN VSIM02E-002	Modified	19/02/2020

Annex to Factory Production Control Requirement Microgeneration Certification Scheme

3.3 Test Reports

TRPVM-2017-40026-1	Issued	10/08/2017
TRPVM-2017-40170-1	Issued	12/02/2018
TRPVM-2017-40173-1	Issued	12/02/2018
TRPVM-2017-40171-1	Issued	14/02/2018
TRPVM-2017-40172-1	Issued	14/02/2018
TRPVM-2017-40423-1	Issued	25/09/2018
TRPVM-2018-40252-2	Issued	15/01/2019
TRPVM-2018-40252-1	Issued	15/01/2019
50243719 001	Issued	26/04/2019
TRPVM-2018-40332-1	Issued	15/05/2019
TRPVM-2018-40346-1	Issued	15/05/2019
TRPVM-2018-40371-1	Issued	16/05/2019
TRPVM-2018-40265-1	Issued	12/06/2019
TRPVM-2018-40266-1	Issued	17/06/2019
TRPVM-2018-40266-2	Issued	18/06/2019
TRPVM-2019-40126-1	Issued	02/07/2019
TRPVM-2019-40127-1	Issued	15/11/2019
TRPVM-2019-40057-1	Issued	02/12/2019
TRPVM-2019-40058-1	Issued	02/12/2019

4 Products Within Scope of Certification

4.1 MCS 005: Solar Photovoltaic Modules

Product Type	Product Name	Power Range (W)	Certification Number
Monocrystalline	NU-JC320B	320	BABT8775-001
Monocrystalline	NU-JC330	330	BABT8775-002
Monocrystalline	NU-JB395	395	BABT8775-003
Monocrystalline	NU-AF380C	380	BABT8775-004
Polycrystalline	ND-AF330C	330	BABT8775-005
Monocrystalline	NU-AC310	310	BABT8775-006
Monocrystalline	NU-AC300B	300	BABT8775-007
Monocrystalline	NU-AF370	370	BABT8775-008
Polycrystalline	ND-AC275	275	BABT8775-009

Annex to Factory Production Control Requirement Microgeneration Certification Scheme

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 **9th March 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: _____ 2020-03-12

Print Name: Stephen Milliken _____

On behalf of TUV SUD BABT UNLIMITED