



172



Certificate of Factory Production Control

This certificate has been issued to

Risen Energy Co., Ltd.

of

No.23 Middle Xingke Road
Ninghai
Ningbo
Zhejiang Province
315609
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 B A B T UNLIMITED

Certificate Number: B A B T 8678 R7

Valid from: 07 September 2021

This Certificate expires on: 08 August 2022



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@tuv-sud.co.uk

Annex to Factory Production Control Requirement Microgeneration Certification Scheme



1 Manufacturing Location

Facility 1
No.23 Middle Xingke Road Ninghai Ningbo Zhejiang Province 315609 People's Republic of China

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 8678 R7	1	2021-08-26

3 Technical Documentation

3.1 User Guide

Installation and Maintenance Manual RS/03-MR-01-2021 Modified 2021-08-09

3.2 Test Reports

70.406.17.043.03-03	Issued	2019-04-22
70.406.17.043.04-02	Issued	2018-09-27
70.406.17.043.04-03	Issued	2018-11-05
70.406.17.043.04-04	Issued	2018-12-19
70.406.17.043.04-05	Issued	2019-03-12
70.406.17.043.04-06	Issued	2019-03-22
70.406.17.043.04-07	Issued	2019-05-05
70.406.17.043.04-09	Issued	2020-04-10
70.406.17.043.04-10	Issued	2020-04-30
70.406.17.043.04-12	Issued	2020-09-02
70.406.17.043.04-13	Issued	2020-11-02
70.406.17.043.04-14	Issued	2020-12-28
70.406.17.043.04-17	Issued	2021-06-11

Annex to Factory Production Control Requirement Microgeneration Certification Scheme



70.406.17.043.10-06	Issued	2018-12-27
70.406.17.043.11-05	Issued	2018-10-09
70.406.17.043.11-07	Issued	2018-12-29
70.406.17.043.11-08	Issued	2019-04-08
70.406.17.043.11-11	Issued	2019-06-25
70.406.17.043.11-16	Issued	2020-02-28
70.406.17.043.11-17	Issued	2020-03-16
70.406.17.043.11-18	Issued	2020-06-12
70.406.17.043.11-20	Issued	2020-11-09
70.406.17.043.11-21	Issued	2020-12-28
70.406.17.043.11-22	Issued	2021-01-28
70.406.17.043.11-23	Issued	2021-03-25

4 Products Within Scope of Certification

4.1 MCS 005: Solar Photovoltaic Modules

Product Type	Product Name ^{Note 1}	Power Range (W) ^{Note 2}	Certification Number
Monocrystalline	RSM60-6-xxxM	275-320	BABT8678-101
Monocrystalline	RSM72-6-xxxM	330-385	BABT8678-102
Polycrystalline	RSM60-6-xxxP	260-295	BABT8678-103
Polycrystalline	RSM72-6-xxxP	315-355	BABT8678-104
Monocrystalline	RSM120-6-xxxM	295-375	BABT8678-105
Monocrystalline	RSM144-6-xxxM	350-450	BABT8678-106
Polycrystalline	RSM120-6-xxxP	275-305	BABT8678-107
Polycrystalline	RSM144-6-xxxP	330-365	BABT8678-108
Monocrystalline	RSM132-6-xxxM	320-385	BABT8678-109
Monocrystalline	RSM156-6-xxxM	410-455	BABT8678-110
Monocrystalline	RSM72-6-xxxMDG	315-385	BABT8678-111
Monocrystalline	RSM60-6-xxxMDG	265-320	BABT8678-112
Monocrystalline	RSM144-6-xxxMDG	350-405	BABT8678-113
Monocrystalline	RSM132-6-xxxMDG	320-370	BABT8678-114
Monocrystalline	RSM120-6-xxxMDG	295-340	BABT8678-115
Polycrystalline	RSM72-6-xxxPDG	315-360	BABT8678-116
Polycrystalline	RSM60-6-xxxPDG	265-300	BABT8678-117
Polycrystalline	RSM144-6-xxxPDG	330-365	BABT8678-118
Polycrystalline	RSM120-6-xxxPDG	275-305	BABT8678-119
Monocrystalline	RSM72-6-xxxBMDG	340-385	BABT8678-120
Monocrystalline	RSM60-6-xxxBMDG	280-325	BABT8678-121
Monocrystalline	RSM144-6-xxxBMDG	360-415	BABT8678-122
Monocrystalline	RSM132-6-xxxBMDG	330-380	BABT8678-123
Monocrystalline	RSM120-6-xxxBMDG	300-340	BABT8678-124
Monocrystalline	RSM156-6-xxxMB	410-455	BABT8678-125

Annex to Factory Production Control Requirement Microgeneration Certification Scheme



Product Type	Product Name ^{Note 1}	Power Range (W) ^{Note 2}	Certification Number
Monocrystalline	RSM144-6-xxxMB	350-420	BABT8678-126
Monocrystalline	RSM144-7-xxxM	425-450	BABT8678-127
Monocrystalline	RSM144-7-xxxMB	425-450	BABT8678-128
Monocrystalline	RSM132-6-xxxMB	320-385	BABT8678-129
Monocrystalline	RSM120-6-xxxMB	295-350	BABT8678-130
Monocrystalline	RSM150-8-xxxM	465-505	BABT8678-131
Monocrystalline	RSM150-8-xxxMB	465-505	BABT8678-132
Monocrystalline	RSM144-9-xxxM	525-555	BABT8678-133
Monocrystalline	RSM120-8-xxxM	580-610	BABT8678-134
Monocrystalline	RSM110-8-xxxM	530-560	BABT8678-135
Monocrystalline	RSM144-7-xxxBMDG	425-455	BABT8678-136
Monocrystalline	RSM150-8-xxxBMDG	465-510	BABT8678-137
Monocrystalline	RSM90-8-xxxBMDG	285-300	BABT8678-138
Monocrystalline	RSM144-9-xxxBMDG	520-550	BABT8678-139
Monocrystalline	RSM120-8-xxxBMDG	560-610	BABT8678-140
Monocrystalline	RSM110-8-xxxBMDG	530-560	BABT8678-141
Monocrystalline	RSM144-6-xxxBHDG	400-430	BABT8678-142
Monocrystalline	RSM120-6-xxxBHDG	330-360	BABT8678-143
Monocrystalline	RSM40-8-xxxM	385-415	BABT8678-144
Monocrystalline	RSM40-8-xxxMB	385-415	BABT8678-145
Monocrystalline	RSM144-7-xxxBMTG	425-460	BABT8678-146
Monocrystalline	RSM132-6-xxxHDGB	365-390	BABT8678-147

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

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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 **10th May 2021**.

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: _____

2021-09-07

Print Name: _____

(Stephen Milliken)

On behalf of TUV SUD BABT UNLIMITED