ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

UKAS PRODUCT CERTIFICATION
172

TÜV SÜD BABT

Certificate of Factory Production Control

This certificate has been issued to

Shanghai JA Solar Technology Co. Ltd.

of

No. 118, Lane 3111,
West Huancheng Road,
Fengxian District,
201401 Shanghai,
P.R. 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

APPROVED PRODUCT
MCS BABT

Certificate Number: BABT 8515 R25

Valid from: 2019-11-27 This Certificate expires on: 2020-10-10

The holder of this certificate is authorised to use the MCS Approved Product Mark. This certificate has been issued in accordance with the Testing & 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

1 Manufacturing Location

Facility 1	Facility 2	Facility 3
Shanghai JA Solar Technology Co., Ltd No. 118, Lane 3111, West Huancheng Road, Fengxian District, 201401 Shanghai, People's Republic of China.	Hefei JA Solar Technology Co. Ltd. No. 999, Changning Road, Hi-tech Zone, Hefei City, 230088, People's Republic of China.	Vina Solar Technology Co., Ltd E12 factory, Lot CN-03, Van Trung Industrial Park, 21000 Bac Giang Province, Vietnam
Facility 4		
JA Solar (Xingtai) Co., Ltd No. 1688, Chang An Road, Xingtai Economic Development Area, Xingtai		

2 Established conformity

2.1 Product Certification Scheme Requirements

Microgeneration Certification Scheme	Revision	Applicability
MCS:005 – Solar Photovoltaic Modules	Issue 2.5 & Issue 3.0	☒
MCS:010 – Factory Production Control Requirements	Issue 3.0	☒
MCS012 – Pitched Roof Installation Kits	Issue N/A	☐
MCS017 – Bespoke Building Integrated Photovoltaic Products	Issue N/A	☐

2.2 Assessment Report

Assessment Report Number	Issue Number	Issue Date
BABT-MCS8515 R24 Assessment Report	1	2019-10-22

3 Technical Documentation

3.1 Declaration of Conformity

Declaration Letter 2019-09-30

3.2 User Guide

Installation Manual 2019-09-19

3.3 Test Reports

Supporting evidence of compliance was examined and found to demonstrate compliance with the MCS005 technical requirements for the equipment referenced in this annex

4 Products within scope of certification

4.1 MCS005 Issue 2.5: Solar Photovoltaic Modules

Product Type	Product Name	Power Range (W)	Certification Number
Monocrystalline	JAM6-60-xxx	200-250	BABT 8515-01-R1
Polycrystalline	JAP6-60-xxx	200-250	BABT 8515-02-R1
Monocrystalline	JAM6-60-xxx/3BB	200-250	BABT 8515-03
Monocrystalline	JAM5-72-xxx	155-195	BABT 8515-04
Monocrystalline	JAM5(L)-72-xxx	155-195	BABT 8515-05
Monocrystalline	JAM5(L)-72-xxx/SI	180-220	BABT 8515-06
Monocrystalline	JAM6-60-xxx/SI	235-280	BABT 8515-07-R1
Monocrystalline	JAM6-72-xxx	255-305	BABT 8515-08
Monocrystalline	JAM6-72-xxx/SI	285-325	BABT 8515-09
Polycrystalline	JAP6-60-xxx/MP	220-265	BABT 8515-10
Polycrystalline	JAP6-60-xxx/3BB	200-275	BABT 8515-11-R1
Polycrystalline	JAP6-72-xxx	245-295	BABT 8515-12
Polycrystalline	JAP6-72-xxx/MP	280-320	BABT 8515-13
Polycrystalline	JAP6-72-xxx/3BB	250-330	BABT 8515-14-R2
Monocrystalline	JAM5(L)(BK)-72-xxx	155-195	BABT 8515-15
Monocrystalline	JAM5(L)(BK)-72-xxx/SI	180-220	BABT 8515-16-R1
Monocrystalline	JAM6(BK)-60-xxx	200-250	BABT 8515-17
Monocrystalline	JAM6(BK)-60-xxx/SI	235-280	BABT 8515-18-R1
Monocrystalline	JAM6(BK)-60-xxx/3BB	200-250	BABT 8515-19
Monocrystalline	JAM6(BK)-72-xxx	255-305	BABT 8515-20
Monocrystalline	JAM6(BK)-72-xxx/SI	280-320	BABT 8515-21
Polycrystalline	JAP6(BK)-60-xxx	200-250	BABT 8515-22
Polycrystalline	JAP6(BK)-60-xxx/MP	220-265	BABT 8515-23
Polycrystalline	JAP6(BK)-60-xxx/3BB	200-275	BABT 8515-24-R2
Polycrystalline	JAP6(BK)-72-xxx	245-295	BABT 8515-25
Polycrystalline	JAP6(BK)-72-xxx/MP	280-320	BABT 8515-26
Polycrystalline	JAP6(BK)-72-xxx/3BB	245-330	BABT 8515-27-R2
Monocrystalline	JAM5(R)-72-xxx	195-220	BABT 8515-28
Monocrystalline	JAM5(L)(T)-72-xxx/SI	180-220	BABT 8515-29
Monocrystalline	JAM5(R)(T)-72-xxx	195-220	BABT 8515-30
Monocrystalline	JAM6(T)-60-xxx/SI	235-265	BABT 8515-31
Monocrystalline	JAM6(T)-72-xxx/SI	285-325	BABT 8515-32
Polycrystalline	JAP6(T)-60-xxx/3BB	200-275	BABT 8515-33-R1
Polycrystalline	JAP6(T)-72-xxx/3BB	250-330	BABT 8515-34-R1

Annex to
Factory Production Control Requirement
Microgeneration Certification Scheme

Product Type	Product Name	Power Range (W)	Certification Number
Monocrystalline	JAM5(R)(BK)-72-xxx	195-220	BABT 8515-35
Monocrystalline	JAM5(L)(T)(BK)-72-xxx/SI	155-215	BABT 8515-36
Monocrystalline	JAM5(R)(T)(BK)-72-xxx	195-220	BABT 8515-37
Monocrystalline	JAM6(T)(BK)-60-xxx/SI	235-265	BABT 8515-38
Monocrystalline	JAM6(T)(BK)-72-xxx/SI	280-320	BABT 8515-39
Polycrystalline	JAP6(T)(BK)-60-xxx/3BB	200-275	BABT 8515-40-R1
Polycrystalline	JAP6(T)(BK)-72-xxx/3BB	250-330	BABT 8515-41-R1
Polycrystalline	JAP6(DG)-60-xxx/3BB	225-275	BABT 8515-42-R1
Monocrystalline	JAM6(R)-60-xxx	255-280	BABT 8515-43
Monocrystalline	JAM6(R)-72-xxx	295-340	BABT 8515-44
Monocrystalline	JAM6(R)(BK)-60-xxx	255-280	BABT 8515-45
Monocrystalline	JAM6(R)(BK)-72-xxx	295-340	BABT 8515-46
Monocrystalline	JAM6(R)-48-xxx	205-225	BABT 8515-47
Monocrystalline	JAM6-48-xxx/SI	200-330	BABT 8515-48
Monocrystalline	JAM6(L)-60-xxx/PR	270-295	BABT 8515-49
Monocrystalline	JAM6(L)(BK)-60-xxx/PR	270-295	BABT 8515-50
Monocrystalline	JAM6(L)-72 -xxx/PR	325-345	BABT 8515-51
Monocrystalline	JAM6(L)(BK)-72-xxx/PR	325-345	BABT 8515-52
Polycrystalline	JAP6-60-xxx/RE	255-280	BABT 8515-53
Polycrystalline	JAP6-72-xxx/RE	305-330	BABT 8515-54
Polycrystalline	JAP6-60-xxx/4BB/RE	255-280	BABT 8515-55
Polycrystalline	JAP6-72-xxx/4BB/RE	305-330	BABT 8515-56
Monocrystalline	JAM6(SE)-60-xxx/SI	235-280	BABT 8515-57
Polycrystalline	JAP6(SE)-60 -xxx/3BB	200-275	BABT 8515-58
Monocrystalline	JAM6(TG)-60 -xxx/SI	250-280	BABT 8515-59
Polycrystalline	JAP6(TG)-60 -xxx/3BB	245-265	BABT 8515-60
Monocrystalline	JAM6(BK)(SE)-60-xxx/SI	250-280	BABT 8515-61
Monocrystalline	JAM6(R)(BK)(SE)-60-xxx	260-280	BABT 8515-62
Monocrystalline	JAM6(BK)(TG)-60-xxx/SI	250-280	BABT 8515-63
Monocrystalline	JAM6(R)(BK)(TG)-60-xxx	260-280	BABT 8515-64
Monocrystalline	JAM6(R)-54-xxx	230-250	BABT 8515-65
Monocrystalline	JAM6(R)(BK)-54-xxx	230-250	BABT 8515-66
Monocrystalline	JAM6(L)-54-xxx/PR	250-270	BABT 8515-67
Monocrystalline	JAM6(L)(BK)-54-xxx/PR	250-270	BABT 8515-68
Polycrystalline	JAP6-72-xxx/4BB	305-330	BABT 8515-69
Polycrystalline	JAP6(BK)-60-xxx/4BB/RE	255-280	BABT 8515-70
Polycrystalline	JAP6(TG)-60-xxx/4BB/RE	255-275	BABT 8515-71

Annex to
Factory Production Control Requirement
Microgeneration Certification Scheme

Product Type	Product Name	Power Range (W)	Certification Number
Polycrystalline	JAP6(TG)-60-xxx/4BB	250-275	BABT 8515-72
Polycrystalline	JAP6(SE)-60-xxx/4BB	250-275	BABT 8515-73
Polycrystalline	JAP6(SE)-72-xxx/4BB	300-330	BABT 8515-74
Monocrystalline	JAM6(L)(SE)-60-xxx/PR	275-295	BABT 8515-75
Monocrystalline	JAM6(K)(BK)-60-xxx/4BB	265-290	BABT 8515-76
Monocrystalline	JAM6(L)(BK)(SE)-60-xxx/PR	275-295	BABT 8515-77
Monocrystalline	JAM6(L)(BK)-60-xxx/PR	270-295	BABT 8515-78
Monocrystalline	JAM6(K)-60-xxx/4BB	265-285	BABT 8515-79
Monocrystalline	JAM6(K)(TG)-60-xxx/4BB	265-280	BABT 8515-80
Monocrystalline	JAM6(K)(BK)(TG)-60-xxx/4BB	265-280	BABT 8515-81
Monocrystalline	JAM6(K)(BK)(SE)-60-xxx/4BB	265-290	BABT 8515-82
Monocrystalline	JAM6(K)(SE)-60-xxx/4BB	265-290	BABT 8515-83
Polycrystalline	JAP6(DG)-60-xxx/3BB/1500V	245-265	BABT 8515-84
Polycrystalline	JAP6(DG)-60-xxx/4BB/1500V	250-275	BABT 8515-85
Polycrystalline	JAP6(DG)-60-xxx/4BB/RE/1500V	255-280	BABT 8515-86
Monocrystalline	JAM6(DG)-60-xxx/1500V	250-270	BABT 8515-87
Monocrystalline	JAM6(K)(DG)-60-xxx/4BB/1500V	260-285	BABT 8515-88
Monocrystalline	JAM6(K)(DG)-60-xxx/PR/1500V	270-305	BABT 8515-89
Polycrystalline	JAP6(TG)-72-xxx/4BB	300-330	BABT 8515-90
Polycrystalline	JAP6(SE)-72-xxx/3BB	250-330	BABT 8515-91
Monocrystalline	JAM6(K)-72-xxx/4BB	320-340	BABT 8515-92
Monocrystalline	JAM6(K)-60-xxx/PR	275-305	BABT 8515-93
Monocrystalline	JAM6(K)(BK)-60-xxx/PR	275-305	BABT 8515-94
Monocrystalline	JAM6(K)(SE)-60-xxx/PR	275-300	BABT 8515-95
Monocrystalline	JAM6(K)(BK)(SE)-60-xxx/PR	275-300	BABT 8515-96
Monocrystalline	JAM6(K)(BK)(TG)-60-xxx/PR	275-300	BABT 8515-97
Polycrystalline	JAP6(SE)-60-xxx/4BB/RE	255-275	BABT 8515-98
Polycrystalline	JAP6(SE)-72-xxx/4BB/RE	305-325	BABT 8515-99
Monocrystalline	JAM6(K)(TG)-60-xxx/4BB	265-280	BABT 8515-100
Monocrystalline	JAM6(K)(TG)-60-xxx/PR	275-300	BABT 8515-101
Polycrystalline	JAP6-60-xxx/4BB	250-275	BABT 8515-102
Polycrystalline	JAP6(K)-60-xxx/4BB	255-275	BABT 8515-103
Polycrystalline	JAP6(K)-72-xxx/4BB	305-325	BABT 8515-104
Polycrystalline	JAP6(K)(SE)-60-xxx/4BB	255-275	BABT 8515-105
Polycrystalline	JAP6(K)(TG)-60-xxx/4BB	255-275	BABT 8515-106
Polycrystalline	JAP6(K)(TG)-72-xxx/4BB	310-330	BABT 8515-107
Polycrystalline	JAP6(K)(DG)-60-xxx/4BB/1500V	250-275	BABT 8515-108

Annex to
Factory Production Control Requirement
Microgeneration Certification Scheme

Product Type	Product Name	Power Range (W)	Certification Number
Polycrystalline	JAP6(K)(DG)-72-xxx/4BB/1500V	305-325	BABT 8515-109
Monocrystalline	JAM60S01-xxx/PR	280-325	BABT 8515-110-R2
Monocrystalline	JAM72S01-xxx/PR	360-390	BABT 8515-111-R2
Monocrystalline	JAM60S02-xxx/PR	280-315	BABT 8515-112-R1
Monocrystalline	JAM72S02-xxx/PR	325-380	BABT 8515-113-R1
Monocrystalline	JAM60S01-xxx/SC	265-300	BABT 8515-114-R1
Monocrystalline	JAM60S02-xxx/SC	265-300	BABT 8515-115-R1
Monocrystalline	JAM60S05-xxx/SC	265-300	BABT 8515-116-R1
Monocrystalline	JAM60S05-xxx/PR	280-315	BABT 8515-117-R1
Monocrystalline	JAM60S07-xxx/SC	265-300	BABT 8515-118-R1
Monocrystalline	JAM60S07-xxx/PR	280-315	BABT 8515-119-R1
Polycrystalline	JAP60S01-xxx/SC	250-290	BABT 8515-120-R1
Polycrystalline	JAP72S01-xxx/SC	305-345	BABT 8515-121-R1
Polycrystalline	JAP60S04-xxx/SC	255-290	BABT 8515-122-R1
Polycrystalline	JAP60S05-xxx/SC	255-290	BABT 8515-123-R1
Polycrystalline	JAP72S05-xxx/SC	305-345	BABT 8515-124-R1
Monocrystalline	JAM72S01-xxx/SC	330-365	BABT 8515-125
Monocrystalline	JAM60S03-xxx/PR	295-335	BABT 8515-126
Monocrystalline	JAM72S03-xxx/PR	355-400	BABT 8515-127
Monocrystalline	JAM60S04-xxx/PR	285-315	BABT 8515-128
Monocrystalline	JAM60S06-xxx/PR	280-315	BABT 8515-129
Monocrystalline	JAM60S06-xxx/SC	270-300	BABT 8515-130
Monocrystalline	JAM72S04-xxx/PR	340-380	BABT 8515-131
Monocrystalline	JAM72S02-xxx/SC	325-365	BABT 8515-132
Polycrystalline	JAP60S03-xxx/PR	280-315	BABT 8515-133
Polycrystalline	JAP72S03-xxx/PR	340-380	BABT 8515-134
Polycrystalline	JAP60S03-xxx/SC	270-300	BABT 8515-135
Polycrystalline	JAP60S02-xxx/SC	255-290	BABT 8515-136
Polycrystalline	JAP72S03-xxx/SC	320-350	BABT 8515-137
Polycrystalline	JAP72S04-xxx/SC	310-345	BABT 8515-138
Monocrystalline	JAM60D00-xxx/PR	285-315	BABT 8515-139-1
Monocrystalline	JAM72D00-xxx/PR	350-375	BABT 8515-140-1
Monocrystalline	JAM60D00-xxx/SC	270-285	BABT 8515-141
Monocrystalline	JAM72D00-xxx/SC	335-340	BABT 8515-142
Monocrystalline	JAM72D00-xxx/BP	350-390	BABT 8515-143
Monocrystalline	JAM60D00-xxx/BP	290-330	BABT 8515-144
Polycrystalline	JAP60D00-xxx/SC	260-290	BABT 8515-145

Annex to
Factory Production Control Requirement
Microgeneration Certification Scheme

Product Type	Product Name	Power Range (W)	Certification Number
Polycrystalline	JAP72D00-xxx/SC	315-345	BABT 8515-146
Monocrystalline	JAM60S08-xxx/PR	295-335	BABT 8515-147
Monocrystalline	JAM72S08-xxx/PR	355-400	BABT 8515-148
Monocrystalline	JAM60S01-xxx/MR	300-330	BABT 8515-149
Monocrystalline	JAM72S01-xxx/MR	360-390	BABT 8515-150
Monocrystalline	JAM60S09-xxx/PR	305-325	BABT 8515-151-R1
Monocrystalline	JAM60S10-xxx/PR	315-345	BABT 8515-152
Monocrystalline	JAM60S14-xxx/PR	310-325	BABT 8515-153
Monocrystalline	JAM60S16-xxx/PR	310-325	BABT 8515-154
Monocrystalline	JAM60S12-xxx/PR	305-325	BABT 8515-155
Monocrystalline	JAM72S10-xxx/PR	380-415	BABT 8515-156
Monocrystalline	JAM60D09-xxx/BP	300-320	BABT 8515-157
Monocrystalline	JAM72D09-xxx/BP	360-385	BABT 8515-158
Polycrystalline	JAP60S09-xxx/SC	265-280	BABT 8515-159
Polycrystalline	JAP72S10-xxx/SC	335-350	BABT 8515-160
Polycrystalline	JAP60S10-xxx/SC	275-290	BABT 8515-161
Polycrystalline	JAP72S09-xxx/SC	320-340	BABT 8515-162
Monocrystalline	JAM60S17-xxx/PR	315-345	BABT 8515-163
Monocrystalline	JAM60S17-xxx/MR	320-340	BABT 8515-164
Monocrystalline	JAM60S10-xxx/MR	320-340	BABT 8515-165
Monocrystalline	JAM72S10-xxx/MR	390-410	BABT 8515-166
Monocrystalline	JAM72S09-xxx/PR	365-390	BABT 8515-167

4.3 MCS005 Issue 3.0: Solar Photovoltaic Modules

Product Type	Product Name	Power Range (W)	Certification Number
Monocrystalline	JAM60S02-xxx/PR	285-325	BABT 8515-112-R2
Monocrystalline	JAM72S02-xxx/PR	345-390	BABT 8515-113-R2
Polycrystalline	JAP60S01-xxx/SC	255-290	BABT 8515-120-R2
Polycrystalline	JAP72S01-xxx/SC	315-345	BABT 8515-121-R2
Polycrystalline	JAP60S04-xxx/SC	270-290	BABT 8515-122-R2
Monocrystalline	JAM60S03-xxx/PR	300-335	BABT 8515-126-R1
Monocrystalline	JAM72S03-xxx/PR	360-400	BABT 8515-127-R1
Monocrystalline	JAM60S04-xxx/PR	300-315	BABT 8515-128-R1
Monocrystalline	JAM72S04-xxx/PR	360-380	BABT 8515-131-R1
Polycrystalline	JAP72S04-xxx/SC	325-345	BABT 8515-138-R1
Monocrystalline	JAM60D00-xxx/PR	285-320	BABT 8515-139-R2
Monocrystalline	JAM72D00-xxx/PR	340-385	BABT 8515-140-R2
Monocrystalline	JAM60S08-xxx/PR	300-335	BABT 8515-147-R1
Monocrystalline	JAM72S08-xxx/PR	360-400	BABT 8515-148-R1
Monocrystalline	JAM60S01-xxx/MR	305-330	BABT 8515-149-R1
Monocrystalline	JAM72S01-xxx/MR	365-390	BABT 8515-150-R1
Monocrystalline	JAM60S01-xxx/PR	285-325	BABT 8515-110-R3
Monocrystalline	JAM72S01-xxx/PR	345-390	BABT 8515-111-R3
Monocrystalline	JAM60S09-xxx/PR	310-335	BABT 8515-151-R2
Monocrystalline	JAM60S12-xxx/PR	305-330	BABT 8515-155-R1
Monocrystalline	JAM60S17-xxx/PR	315-325	BABT 8515-163-R1
Monocrystalline	JAM60S17-xxx/MR	315-325	BABT 8515-164-R1
Monocrystalline	JAM60D09-xxx/BP	300-340	BABT 8515-157-R1
Monocrystalline	JAM72D09-xxx/BP	360-400	BABT 8515-158-R2
Polycrystalline	JAP60S09-xxx/SC	265-290	BABT 8515-159-R1
Polycrystalline	JAP72S09-xxx/SC	320-345	BABT 8515-162-R1
Monocrystalline	JAM60S10-xxx/MR	325-345	BABT 8515-165-R1
Monocrystalline	JAM72S10-xxx/MR	390-420	BABT 8515-166-R1
Monocrystalline	JAM72S09-xxx/PR	370-405	BABT 8515-167-R1
Monocrystalline	JAM72S10-xxx/PR	380-410	BABT 8515-199
Monocrystalline	JAM60S10-xxx/PR	315-345	BABT 8515-200
Polycrystalline	JAP72S01-xxx/PR	330-345	BABT 8515-168
Polycrystalline	JAP60S01-xxx/PR	275-285	BABT 8515-169
Polycrystalline	JAP72S01-xxx/MS	325-340	BABT 8515-170
Polycrystalline	JAP72S03-xxx/MS	320-345	BABT 8515-171

Annex to
Factory Production Control Requirement
Microgeneration Certification Scheme

Product Type	Product Name	Power Range (W)	Certification Number
Polycrystalline	JAP72S02-xxx/SC	310-345	BABT 8515-172
Polycrystalline	JAP60S02-xxx/SC	255-290	BABT 8515-136-R1
Polycrystalline	JAP72S02-xxx/PR	330-345	BABT 8515-173
Polycrystalline	JAP60S02-xxx/PR	275-285	BABT 8515-174
Polycrystalline	JAP72S08-xxx/SC	320-345	BABT 8515-175
Polycrystalline	JAP60S08-xxx/SC	270-290	BABT 8515-176
Polycrystalline	JAP72S08-xxx/PR	335-355	BABT 8515-177
Polycrystalline	JAP60S08-xxx/PR	280-295	BABT 8515-178
Polycrystalline	JAP72D00-xxx/SC	310-340	BABT 8515-146-R1
Polycrystalline	JAP60D00-xxx/SC	260-285	BABT 8515-145-R1
Polycrystalline	JAP72D00-xxx/PR	330-345	BABT 8515-179
Polycrystalline	JAP60D00-xxx/PR	275-290	BABT 8515-180
Polycrystalline	JAP72D09-xxx/SC	330-345	BABT 8515-181
Polycrystalline	JAP60D09-xxx/SC	275-290	BABT 8515-182
Monocrystalline	JAM78S10-xxx/MR	410-455	BABT 8515-183
Monocrystalline	JAM66S10-xxx/MR	345-380	BABT 8515-184
Monocrystalline	JAM72S02-xxx/MR	365-385	BABT 8515-185
Monocrystalline	JAM60S02-xxx/MR	305-320	BABT 8515-186
Monocrystalline	JAM72S12-xxx/PR	365-380	BABT 8515-187
Monocrystalline	JAM72S17-xxx/PR	380-390	BABT 8515-188
Monocrystalline	JAM72S17-xxx/MR	390-395	BABT 8515-189
Monocrystalline	JAM72D00-xxx/MB	370-380	BABT 8515-190
Monocrystalline	JAM60D00-xxx/MB	310-315	BABT 8515-191
Monocrystalline	JAM72D10-xxx/MB	385-410	BABT 8515-192
Monocrystalline	JAM60D10-xxx/MB	320-340	BABT 8515-193
Monocrystalline	JAM60S13-xxx/PR	310-330	BABT 8515-194
Monocrystalline	JAM72S18-xxx/PR	370-405	BABT 8515-195
Monocrystalline	JAM60S18-xxx/PR	310-335	BABT 8515-196
Polycrystalline	JAP72S01-xxx/MS	325-340	BABT 8515-197
Polycrystalline	JAP60S01-xxx/MS	270-280	BABT 8515-198
Polycrystalline	JAP72S03-xxx/SC	320-345	BABT 8515-137-R1
Polycrystalline	JAP60S03-xxx/SC	270-290	BABT 8515-135-R1
Polycrystalline	JAP72S03-xxx/PR	335-355	BABT 8515-134-R1
Polycrystalline	JAP60S03-xxx/PR	280-295	BABT 8515-133-RI
Polycrystalline	JAP72S10-xxx/SC	335-350	BABT 8515-160
Polycrystalline	JAP60S10-xxx/SC	275-290	BABT 8515-161
Monocrystalline	JAM60D00-xxx/BP	275-320	BABT 8515-143-R1

Product Type	Product Name	Power Range (W)	Certification Number
Monocrystalline	JAM72D00-xxx/BP	330-385	BABT 8515-144-R1

5 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 sub-licence agreement dated 2010-09-09.

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 or a person appointed by TUV SUD BABT 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: 27TH NOVEMBER 2019

Print Name: NATHAN EMERY

On behalf of TUV SUD BABT