



Certificate of Factory Production Control

This certificate has been issued to

Shanghai JA Solar Technology Co. Ltd.

of

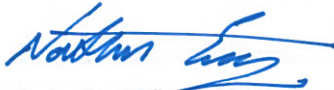
No. 118, Lane 3111,
West Huancheng Road,
Fengxian District,
201401 Shanghai,
P.R. China

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 addresses on the annex to this certificate and includes the ranges of Photovoltaic Solar Panels as detailed on the attached annex to this certificate

Signed:


on behalf of TÜV SÜD BABT



Certificate Number: BABT 8515 R22

Valid from: 20th May 2019 This Certificate expires on: 13th October 2019

The holder of this certificate is authorised to use the MCS Approved Product Mark. This certificate has been issued in accordance with the Certification Regulations of TÜV SÜD BABT. 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

Manufacturing Location

At manufacturing location(s) known and audited by TÜV SÜD BABT and operating under a Production Quality Control system complying with UK Microgeneration Standard MCS 010 Issue 1.5.

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

Standards

MCS005 Issue 2.5 and MCS010 Issue 1.5 on the basis of a BABT Assessment Report Dated 2019-05-20.

Certification Scope

Product Category: Photovoltaic Panels

This certificate covers several families of Photovoltaic Solar Panels which use mono-crystalline and poly-crystalline cells.

These products use cells that are manufactured using the same processes and materials.

Identifier	Model	Cell Type	Cell Size (Inch)	No. Cells	'xxx' Power Range (W)	Power Step Size (W)
BABT 8515-01-R1	JAM6-60-xxx	Monocrystalline	6	60	200-250	5
BABT 8515-02-R1	JAP6-60-xxx	Polycrystalline	6	60	200-250	5
BABT 8515-03	JAM6-60-xxx/3BB	Monocrystalline	6	60	200-250	5
BABT 8515-04	JAM5-72-xxx	Monocrystalline	5	72	155-195	5
BABT 8515-05	JAM5(L)-72-xxx	Monocrystalline	5	72	155-195	5
BABT 8515-06	JAM5(L)-72-xxx/SI	Monocrystalline	5	72	180-220	5
BABT 8515-07-R1	JAM6-60-xxx/SI	Monocrystalline	6	60	235-280	5
BABT 8515-08	JAM6-72-xxx	Monocrystalline	6	72	255-305	5
BABT 8515-09	JAM6-72-xxx/SI	Monocrystalline	6	72	285-325	5
BABT 8515-10	JAP6-60-xxx/MP	Polycrystalline	6	60	220-265	5
BABT 8515-11-R1	JAP6-60-xxx/3BB	Polycrystalline	6	60	200-275	5
BABT 8515-12	JAP6-72-xxx	Polycrystalline	6	72	245-295	5
BABT 8515-13	JAP6-72-xxx/MP	Polycrystalline	6	72	280-320	5

Annex to Certificate BAPT-MCS8515 R22



Identifier	Model	Cell Type	Cell Size (Inch)	No. Cells	'xxx' Power Range (W)	Power Step Size (W)
BABT 8515-14-R2	JAP6-72-xxx/3BB	Polycrystalline	6	72	250-330	5
BABT 8515-15	JAM5(L)(BK)-72-xxx	Monocrystalline	5	72	155-195	5
BABT 8515-16-R1	JAM5(L)(BK)-72-xxx/SI	Monocrystalline	5	72	180-220	5
BABT 8515-17	JAM6(BK)-60-xxx	Monocrystalline	6	60	200-250	5
BABT 8515-18-R1	JAM6(BK)-60-xxx/SI	Monocrystalline	6	60	235-280	5
BABT 8515-19	JAM6(BK)-60-xxx/3BB	Monocrystalline	6	60	200-250	5
BABT 8515-20	JAM6(BK)-72-xxx	Monocrystalline	6	72	255-305	5
BABT 8515-21	JAM6(BK)-72-xxx/SI	Monocrystalline	6	72	280-320	5
BABT 8515-22	JAP6(BK)-60-xxx	Polycrystalline	6	60	200-250	5
BABT 8515-23	JAP6(BK)-60-xxx/MP	Polycrystalline	6	60	220-265	5
BABT 8515-24-R2	JAP6(BK)-60-xxx/3BB	Polycrystalline	6	60	200-275	5
BABT 8515-25	JAP6(BK)-72-xxx	Polycrystalline	6	72	245-295	5
BABT 8515-26	JAP6(BK)-72-xxx/MP	Polycrystalline	6	72	280-320	5
BABT 8515-27-R2	JAP6(BK)-72-xxx/3BB	Polycrystalline	6	72	245-330	5
BABT 8515-28	JAM5(R)-72-xxx	Monocrystalline	5	72	195-220	5
BABT 8515-29	JAM5(L)(T)-72-xxx/SI	Monocrystalline	5	72	180-220	5
BABT 8515-30	JAM5(R)(T)-72-xxx	Monocrystalline	5	72	195-220	5
BABT 8515-31	JAM6(T)-60-xxx/SI	Monocrystalline	6	60	235-265	5
BABT 8515-32	JAM6(T)-72-xxx/SI	Monocrystalline	6	72	285-325	5
BABT 8515-33-R1	JAP6(T)-60-xxx/3BB	Polycrystalline	6	60	200-275	5
BABT 8515-34-R1	JAP6(T)-72-xxx/3BB	Polycrystalline	6	72	250-330	5
BABT 8515-35	JAM5(R)(BK)-72-xxx	Monocrystalline	5	72	195-220	5
BABT 8515-36	JAM5(L)(T)(BK)-72-xxx/SI	Monocrystalline	5	72	155-215	5
BABT 8515-37	JAM5(R)(T)(BK)-72-xxx	Monocrystalline	5	72	195-220	5
BABT 8515-38	JAM6(T)(BK)-60-xxx/SI	Monocrystalline	6	60	235-265	5
BABT 8515-39	JAM6(T)(BK)-72-xxx/SI	Monocrystalline	6	72	280-320	5
BABT 8515-40-R1	JAP6(T)(BK)-60-xxx/3BB	Polycrystalline	6	60	200-275	5
BABT 8515-41-R1	JAP6(T)(BK)-72-xxx/3BB	Polycrystalline	6	72	250-330	5
BABT 8515-42-R1	JAP6(DG)-60-xxx/3BB	Polycrystalline	6	60	225-275	5
BABT 8515-43	JAM6(R)-60-xxx	Monocrystalline	6	60	255-280	5
BABT 8515-44	JAM6(R)-72-xxx	Monocrystalline	6	72	295-340	5
BABT 8515-45	JAM6(R)(BK)-60-xxx	Monocrystalline	6	60	255-280	5
BABT 8515-46	JAM6(R)(BK)-72-xxx	Monocrystalline	6	72	295-340	5
BABT 8515-47	JAM6(R)-48-xxx	Monocrystalline	6	48	205-225	5
BABT 8515-48	JAM6-48-xxx/SI	Monocrystalline	6	48	200-330	5
BABT 8515-49	JAM6(L)-60-xxx/PR	Monocrystalline	6	60	270-295	5
BABT 8515-50	JAM6(L)(BK)-60-xxx/PR	Monocrystalline	6	60	270-295	5
BABT 8515-51	JAM6(L)-72-xxx/PR	Monocrystalline	6	72	325-345	5
BABT 8515-52	JAM6(L)(BK)-72-xxx/PR	Monocrystalline	6	72	325-345	5
BABT 8515-53	JAP6-60-xxx/RE	Polycrystalline	6	60	255-280	5

Annex to Certificate BABT-MCS8515 R22



Identifier	Model	Cell Type	Cell Size (Inch)	No. Cells	'xxx' Power Range (W)	Power Step Size (W)
BABT 8515-54	JAP6-72-xxx/RE	Polycrystalline	6	72	305-330	5
BABT 8515-55	JAP6-60-xxx/4BB/RE	Polycrystalline	6	60	255-280	5
BABT 8515-56	JAP6-72-xxx/4BB/RE	Polycrystalline	6	72	305-330	5
BABT 8515-57	JAM6(SE)-60-xxx/SI	Monocrystalline	6	60	235-280	5
BABT 8515-58	JAP6(SE)-60-xxx/3BB	Polycrystalline	6	60	200-275	5
BABT 8515-59	JAM6(TG)-60-xxx/SI	Monocrystalline	6	60	250-280	5
BABT 8515-60	JAP6(TG)-60-xxx/3BB	Polycrystalline	6	60	245-265	5
BABT 8515-61	JAM6(BK)(SE)-60-xxx/SI	Monocrystalline	6	60	250-280	5
BABT 8515-62	JAM6(R)(BK)(SE)-60-xxx	Monocrystalline	6	60	260-280	5
BABT 8515-63	JAM6(BK)(TG)-60-xxx/SI	Monocrystalline	6	60	250-280	5
BABT 8515-64	JAM6(R)(BK)(TG)-60-xxx	Monocrystalline	6	60	260-280	5
BABT 8515-65	JAM6(R)-54-xxx	Monocrystalline	6	54	230-250	5
BABT 8515-66	JAM6(R)(BK)-54-xxx	Monocrystalline	6	54	230-250	5
BABT 8515-67	JAM6(L)-54-xxx/PR	Monocrystalline	6	54	250-270	5
BABT 8515-68	JAM6(L)(BK)-54-xxx/PR	Monocrystalline	6	54	250-270	5
BABT 8515-69	JAP6-72-xxx/4BB	Polycrystalline	6	72	305-330	5
BABT 8515-70	JAP6(BK)-60-xxx/4BB/RE	Polycrystalline	6	60	255-280	5
BABT 8515-71	JAP6(TG)-60-xxx/4BB/RE	Polycrystalline	6	60	255-275	5
BABT 8515-72	JAP6(TG)-60-xxx/4BB	Polycrystalline	6	60	250-275	5
BABT 8515-73	JAP6(SE)-60-xxx/4BB	Polycrystalline	6	60	250-275	5
BABT 8515-74	JAP6(SE)-72-xxx/4BB	Polycrystalline	6	72	300-330	5
BABT 8515-75	JAM6(L)(SE)-60-xxx/PR	Monocrystalline	6	60	275-295	5
BABT 8515-76	JAM6(K)(BK)-60-xxx/4BB	Monocrystalline	6	60	265-290	5
BABT 8515-77	JAM6(L)(BK)(SE)-60-xxx/PR	Monocrystalline	6	60	275-295	5
BABT 8515-78	JAM6(L)(BK)-60-xxx/PR	Monocrystalline	6	60	270-295	5
BABT 8515-79	JAM6(K)-60-xxx/4BB	Monocrystalline	6	60	265-285	5
BABT 8515-80	JAM6(K)(TG)-60-xxx/4BB	Monocrystalline	6	60	265-280	5
BABT 8515-81	JAM6(K)(BK)(TG)-60-xxx/4BB	Monocrystalline	6	60	265-280	5
BABT 8515-82	JAM6(K)(BK)(SE)-60-xxx/4BB	Monocrystalline	6	60	265-290	5
BABT 8515-83	JAM6(K)(SE)-60-xxx/4BB	Monocrystalline	6	60	265-290	5
BABT 8515-84	JAP6(DG)-60-xxx/3BB/1500V	Polycrystalline	6	60	245-265	5
BABT 8515-85	JAP6(DG)-60-xxx/4BB/1500V	Polycrystalline	6	60	250-275	5
BABT 8515-86	JAP6(DG)-60-xxx/4BB/RE/1500V	Polycrystalline	6	60	255-280	5
BABT 8515-87	JAM6(DG)-60-xxx/1500V	Monocrystalline	6	60	250-270	5
BABT 8515-88	JAM6(K)(DG)-60-xxx/4BB/1500V	Monocrystalline	6	60	260-285	5
BABT 8515-89	JAM6(K)(DG)-60-xxx/PR/1500V	Monocrystalline	6	60	270-305	5
BABT 8515-90	JAP6(TG)-72-xxx/4BB	Polycrystalline	6	72	300-330	5
BABT 8515-91	JAP6(SE)-72-xxx/3BB	Polycrystalline	6	72	250-330	5
BABT 8515-92	JAM6(K)-72-xxx/4BB	Monocrystalline	6	72	320-340	5
BABT 8515-93	JAM6(K)-60-xxx/PR	Monocrystalline	6	60	275-305	5

Annex to Certificate BABT-MCS8515 R22



Identifier	Model	Cell Type	Cell Size (Inch)	No. Cells	'xxx' Power Range (W)	Power Step Size (W)
BABT 8515-94	JAM6(K)(BK)-60-xxx/PR	Monocrystalline	6	60	275-305	5
BABT 8515-95	JAM6(K)(SE)-60-xxx/PR	Monocrystalline	6	60	275-300	5
BABT 8515-96	JAM6(K)(BK)(SE)-60-xxx/PR	Monocrystalline	6	60	275-300	5
BABT 8515-97	JAM6(K)(BK)(TG)-60-xxx/PR	Monocrystalline	6	60	275-300	5
BABT 8515-98	JAP6(SE)-60-xxx/4BB/RE	Polycrystalline	6	60	255-275	5
BABT 8515-99	JAP6(SE)-72-xxx/4BB/RE	Polycrystalline	6	72	305-325	5
BABT 8515-100	JAM6(K)(TG)-60-xxx/4BB	Monocrystalline	6	60	265-280	5
BABT 8515-101	JAM6(K)(TG)-60-xxx/PR	Monocrystalline	6	60	275-300	5
BABT 8515-102	JAP6-60-xxx/4BB	Polycrystalline	6	60	250-275	5
BABT 8515-103	JAP6(K)-60-xxx/4BB	Polycrystalline	6	60	255-275	5
BABT 8515-104	JAP6(K)-72-xxx/4BB	Polycrystalline	6	72	305-325	5
BABT 8515-105	JAP6(K)(SE)-60-xxx/4BB	Polycrystalline	6	60	255-275	5
BABT 8515-106	JAP6(K)(TG)-60-xxx/4BB	Polycrystalline	6	60	255-275	5
BABT 8515-107	JAP6(K)(TG)-72-xxx/4BB	Polycrystalline	6	72	310-330	5
BABT 8515-108	JAP6(K)(DG)-60-xxx/4BB/1500V	Polycrystalline	6	60	250-275	5
BABT 8515-109	JAP6(K)(DG)-72-xxx/4BB/1500V	Polycrystalline	6	72	305-325	5
BABT 8515-110-R2	JAM60S01-xxx/PR	Monocrystalline	6	60	280-325	5
BABT 8515-111-R2	JAM72S01-xxx/PR	Monocrystalline	6	72	360-390	5
BABT 8515-112-R1	JAM60S02-xxx/PR	Monocrystalline	6	60	280-315	5
BABT 8515-113-R1	JAM72S02-xxx/PR	Monocrystalline	6	72	325-380	5
BABT 8515-114-R1	JAM60S01-xxx/SC	Monocrystalline	6	60	265-300	5
BABT 8515-115-R1	JAM60S02-xxx/SC	Monocrystalline	6	60	265-300	5
BABT 8515-116-R1	JAM60S05-xxx/SC	Monocrystalline	6	60	265-300	5
BABT 8515-117-R1	JAM60S05-xxx/PR	Monocrystalline	6	60	280-315	5
BABT 8515-118-R1	JAM60S07-xxx/SC	Monocrystalline	6	60	265-300	5
BABT 8515-119-R1	JAM60S07-xxx/PR	Monocrystalline	6	60	280-315	5
BABT 8515-120-R1	JAP60S01-xxx/SC	Polycrystalline	6	60	250-290	5
BABT 8515-121-R1	JAP72S01-xxx/SC	Polycrystalline	6	72	305-345	5
BABT 8515-122-R1	JAP60S04-xxx/SC	Polycrystalline	6	60	255-290	5
BABT 8515-123-R1	JAP60S05-xxx/SC	Polycrystalline	6	60	255-290	5
BABT 8515-124-R1	JAP72S05-xxx/SC	Polycrystalline	6	72	305-345	5
BABT 8515-125	JAM72S01-xxx/SC	Monocrystalline	6	72	330-365	5
BABT 8515-126	JAM60S03-xxx/PR	Monocrystalline	6	60	295-335	5
BABT 8515-127	JAM72S03-xxx/PR	Monocrystalline	6	72	355-400	5
BABT 8515-128	JAM60S04-xxx/PR	Monocrystalline	6	60	285-315	5
BABT 8515-129	JAM60S06-xxx/PR	Monocrystalline	6	60	280-315	5
BABT 8515-130	JAM60S06-xxx/SC	Monocrystalline	6	60	270-300	5
BABT 8515-131	JAM72S04-xxx/PR	Monocrystalline	6	72	340-380	5
BABT 8515-132	JAM72S02-xxx/SC	Monocrystalline	6	72	325-365	5
BABT 8515-133	JAP60S03-xxx/PR	Polycrystalline	6	60	280-315	5

Annex to Certificate BABT-MCS8515 R22



Identifier	Model	Cell Type	Cell Size (Inch)	No. Cells	'xxx' Power Range (W)	Power Step Size (W)
BABT 8515-134	JAP72S03-xxx/PR	Polycrystalline	6	72	340-380	5
BABT 8515-135	JAP60S03-xxx/SC	Polycrystalline	6	60	270-300	5
BABT 8515-136	JAP60S02-xxx/SC	Polycrystalline	6	60	255-290	5
BABT 8515-137	JAP72S03-xxx/SC	Polycrystalline	6	72	320-350	5
BABT 8515-138	JAP72S04-xxx/SC	Polycrystalline	6	72	310-345	5
BABT 8515-139-1	JAM60D00-xxx/PR	Monocrystalline	6	60	285-315	5
BABT 8515-140-1	JAM72D00-xxx/PR	Monocrystalline	6	72	350-375	5
BABT 8515-141	JAM60D00-xxx/SC	Monocrystalline	6	60	270-285	5
BABT 8515-142	JAM72D00-xxx/SC	Monocrystalline	6	72	335-340	5
BABT 8515-143	JAM72D00-xxx/BP	Monocrystalline	6	72	350-390	5
BABT 8515-144	JAM60D00-xxx/BP	Monocrystalline	6	60	290-330	5
BABT 8515-145	JAP60D00-xxx/SC	Polycrystalline	6	60	260-290	5
BABT 8515-146	JAP72D00-xxx/SC	Polycrystalline	6	72	315-345	5
BABT 8515-147	JAM60S08-xxx/PR	Monocrystalline	6	60	295-335	5
BABT 8515-148	JAM72S08-xxx/PR	Monocrystalline	6	72	355-400	5
BABT 8515-149	JAM60S01-xxx/MR	Monocrystalline	6	60	300-330	5
BABT 8515-150	JAM72S01-xxx/MR	Monocrystalline	6	72	360-390	5
BABT 8515-151	JAM60S09-xxx/PR	Monocrystalline	6	60	310 to 325	5
BABT 8515-152	JAM60S10-xxx/PR	Monocrystalline	6	60	315 to 345	5
BABT 8515-153	JAM60S14-xxx/PR	Monocrystalline	6	60	310 to 325	5
BABT 8515-154	JAM60S16-xxx/PR	Monocrystalline	6	60	310 to 325	5
BABT 8515-155	JAM60S12-xxx/PR	Monocrystalline	6	60	310 to 325	5
BABT 8515-156	JAM72S10-xxx/PR	Monocrystalline	6	72	380 to 415	5
BABT 8515-157	JAM60D09-xxx/BP	Monocrystalline	6	60	300 to 320	5
BABT 8515-158	JAM72D09-xxx/BP	Monocrystalline	6	72	360 to 385	5
BABT 8515-159	JAP60S09-xxx/SC	Polycrystalline	6	60	265 to 280	5
BABT 8515-160	JAP72S10-xxx/SC	Polycrystalline	6	72	335 to 350	5
BABT 8515-161	JAP60S10-xxx/SC	Polycrystalline	6	60	275 to 290	5
BABT 8515-162	JAP72S09-xxx/SC	Polycrystalline	6	72	320 to 340	5



Additional Information

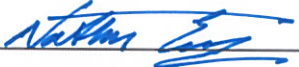
The manufacturer has maintained continuous certification under the MCS010 scheme since 2010-10-14.

Conditions of Validity

This certificate authorises the manufacturer or their authorized representative to apply the MCS Approved Product Mark to the range of products listed above in accordance with the MCS sub-licence agreement dated 2010-09-09.

This certificate loses its validity if the manufacturer makes any changes or modifications to the product or the approved quality system, which have not been notified to, and agreed with TÜV SÜD BABT.

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

Signature:  Valid From: 20th May 2019
On behalf of TÜV SÜD BABT