



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 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 annex to this certificate.

JAM6-60-xxx	JAM6(BK)-60-xxx/3BB	JAM5(R)(T)(BK)-72-xxx
JAP6-60-xxx	JAM6(BK)-72-xxx	JAM6(T)(BK)-60-xxx/SI
JAM6-60-xxx/3BB	JAM6(BK)-72-xxx/SI	JAM6(T)(BK)-72-xxx/SI
JAM5-72-xxx	JAP6(BK)-60-xxx	JAP6(T)(BK)-60-xxx/3BB
JAM5(L)-72-xxx	JAP6(BK)-60-xxx/MP	JAP6(T)(BK)-72-xxx/3BB
JAM5(L)-72-xxx/SI	JAP6(BK)-60-xxx/3BB	JAP6(DG)-60-xxx/3BB
JAM6-60-xxx/SI	JAP6(BK)-72-xxx	JAM6(R)-60-xxx
JAM6-72-xxx	JAP6(BK)-72-xxx/MP	JAM6(R)-72-xxx
JAM6-72-xxx/SI	JAP6(BK)-72-xxx/3BB	JAM6(R)(BK)-60-xxx
JAP6-60-xxx/MP	JAM5(R)-72-xxx	JAM6(R)(BK)-72-xxx
JAP6-60-xxx/3BB	JAM5(L)(T)-72-xxx/SI	JAM6(R)-48-xxx
JAP6-72-xxx	JAM5(R)(T)-72-xxx	JAM6-48-xxx/SI
JAP6-72-xxx/MP	JAM6(T)-60-xxx/SI	JAM6(L)-60-xxx/PR
JAP6-72-xxx/3BB	JAM6(T)-72-xxx/SI	JAM6(L)(BK)-60-xxx/PR
JAM5(L)(BK)-72-xxx	JAP6(T)-60-xxx/3BB	JAM6(L)-72-xxx/PR
JAM5(L)(BK)-72-xxx/SI	JAP6(T)-72-xxx/3BB	JAM6(L)(BK)-72-xxx/PR
JAM6(BK)-60-xxx	JAM5(R)(BK)-72-xxx	JAP6-60-xxx/RE
JAM6(BK)-60-xxx/SI	JAM5(L)(T)(BK)-72-xxx/SI	JAP6-72-xxx/RE

Signed:

Nathan Eames

On behalf of TÜV SÜD BABT



Certificate Number: BABT-MC8515 R17

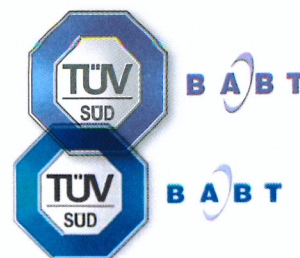
Valid From: 2017-04-24
Renewal Date: 2019-10-13

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

Annex to Certificate BABT-MCS8515 R17



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)	(2)	(3)
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

Standards

MCS005 Issue 2.3 and MCS010 Issue 1.5 on the basis of a BABT Assessment Report Dated 2017-04-21.

Certification Scope

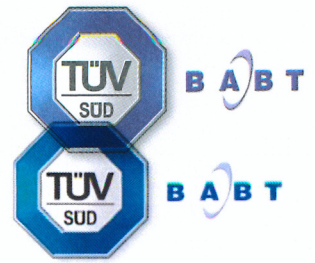
Product Category: Photovoltaic Panels

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
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

Annex to Certificate BABT-MCS8515 R17



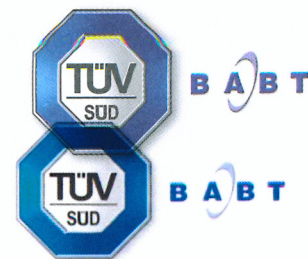
Identifier	Model	Cell Type	Cell Size (Inch)	No. Cells	'xxx' Power Range (W)	Power Step Size (W)
BABT 8515-20	JAM6(BK)-72-xxx	Monocrystalline	6	72	255-305	5
BABT 8515-21	JAM6(BK)-72-xxx/SI	Monocrystalline	6	72	280-320	5
BABT 8515-22	JAP6(BK)-60-xxx	Polycrystalline	6	60	200-250	5
BABT 8515-23	JAP6(BK)-60-xxx/MP	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
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

Annex to Certificate BABT-MCS8515 R17



Identifier	Model	Cell Type	Cell Size (Inch)	No. Cells	'xxx' Power Range (W)	Power Step Size (W)
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	265-280	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
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

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Identifier	Model	Cell Type	Cell Size (Inch)	No. Cells	'xxx' Power Range (W)	Power Step Size (W)
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

Annex to Certificate BAPT-MCS8515 R17



Additional Information

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

This certificate refers to the following TÜV SÜD Constructional Data Forms for referenced build levels and accepted constructional materials.

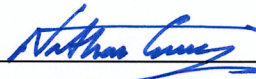
TÜV SÜD Constructional Data Form	Date
70.406.12.095.05-20	2016-07-21
70.406.12.095.06-20	2016-06-13
70.406.12.095.05-23	2017-04-14
70.406.15.095.05-04	2017-02-28
70.406.12.095.06-21	2017-03-08
70.406.15.012.04-04	2017-02-28

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 BAPT.

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: 2017-04-24
On behalf of TÜV SÜD BAPT