

**Technical Report No.: 704062302133-03**

**Date: 2024-02-06**

**Client:** Shanghai JA Solar Technology Co., Ltd. (072092)  
No. 118, Lane 3111, West Huancheng Road, Fengxian District,  
201401, Shanghai, PEOPLE'S REPUBLIC of CHINA  
Contact person: Ms. Wenli Gong

**Manufacturer:** Shanghai JA Solar Technology Co., Ltd. (072092)  
No. 118, Lane 3111, West Huancheng Road, Fengxian District,  
201401, Shanghai, PEOPLE'S REPUBLIC of CHINA  
Contact person: Ms. Wenli Gong

**Factory:**

1. Shanghai JA Solar Technology Co., Ltd. (072092)  
No. 118, Lane 3111, West Huancheng Road, Fengxian District,  
201401, Shanghai, PEOPLE'S REPUBLIC of CHINA
2. Hefei JA Solar Technology Co., Ltd (079395)  
No. 999, Changning Road, Hi-tech Zone, 230088 Hefei City, Anhui  
Province, PEOPLE'S REPUBLIC of CHINA
3. JA Solar (Xingtai) Co., Ltd (095903)  
No. 1688, Chang An Road, Xingtai Economic Development Area,  
054000 Xingtai City, Hebei Province, PEOPLE'S REPUBLIC OF  
CHINA
4. JA Solar New Energy Yangzhou Co., Ltd. (108746)  
No.1, Jianhua Road, Economic Development Zone, 225000  
Yangzhou City, Jiangsu Province, PEOPLE'S REPUBLIC OF  
CHINA
5. Yiwu JA Solar Technology Co., Ltd. (109998)  
No.165, Tongze Road, Yiting Town, 322000 Yiwu City, Zhejiang  
Province, PEOPLE'S REPUBLIC OF CHINA
6. JA SOLAR VIET NAM COMPANY LIMITED (112017)  
Lot G, Quang Chau Industrial Zone, Quang Chau Commune, Viet  
Yen Dist, 236110 Bac Giang Province, VIETNAM
7. HSA ENERJI A.S. (113943)  
OSB III. Kisim Kekiliköy OSB Mah., Mustafa Kemal Bulvari  
No:15/1., 45030 Yunusemre – Manisa, TURKEY

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8. JA Solar New Energy Yangzhou Co., Ltd. (Jingshan Park)  
(114922)  
No. 123, Jinshan Road, Economic Development Zone, 225127  
Yangzhou City, Jiangsu Province, PEOPLE'S REPUBLIC OF  
CHINA
9. Jiangsu Focus Solar Energy Technology Co., Ltd. (004170)  
No.66, Lifa Avenue Development Zone, Hai'an County 226600  
Nantong City, Jiangsu Province PEOPLE'S REPUBLIC OF CHINA
10. Jiangsu Reesun Solar Technology Co., Ltd (117684)  
No.1 Nanjing Road, Jianhu Economic Development Zone  
224799 Yancheng City, Jiangsu, PEOPLE'S REPUBLIC OF CHINA
11. Sunova Solar Technology Co., Ltd. (114994)  
Building H and Building E (production), Phase II of Standard Plant,  
Runzhou Road, Huishan Industrial Transformation Cluster, 214000  
Wuxi, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA
12. Baoding Yingchen New Energy Development Co., Ltd. (120736)  
Changgucheng Industrial Park, Tang County, 072350 Baoding City,  
Hebei Province, PEOPLE'S REPUBLIC OF CHINA
13. Xinlinfei (Yangzhou) Photovoltaic Technology Co., Ltd.  
(115500)  
No.118, Jingang Road, Yangzhou Economic and Technological  
Development Zone, 225100 Yangzhou City, Jiangsu Province,  
PEOPLE'S REPUBLIC OF CHINA
14. Taizhou JinenU New Energy Co., LTD (120016)  
No. 568 Taizhou Road, Jiangyan District, 225599 Taizhou,  
PEOPLE'S REPUBLIC OF CHINA
15. Jiangsu Yueyang Photovoltaic Technology Co., Ltd. (108093)  
777 Tangqiao Road, High-tech Economic Zone, Jianhu County,  
224700 YANCHENG CITY, PEOPLE'S REPUBLIC OF CHINA
16. DongTai JA Solar Technology Co., Ltd. (121678)  
No. 8 Zaofeng North Road, Dongtai High-tech Zone, Dongtai City,  
224248 Yancheng City, Jiangsu Province, PEOPLE'S REPUBLIC  
OF CHINA
17. Inner Mongolia JA Solar PV Technology Co., Ltd. (123101)

No.21, Zhuangbei Avenue, Xin Guihua Area, Equipment Park,  
Qingshan District, 014000 Baotou, Inner Mongolia Autonomous  
Region, PEOPLE'S REPUBLIC OF CHINA

18. QuJing JA Solar Technology Co., Ltd. (123430)  
North of Nanhai Avenue and East of Shaoxi Road, Qujing  
Economic and Technological Development Zone, 655000 Qujing  
City, Yunnan Province, PEOPLE'S REPUBLIC OF CHINA

Test object:                      Product:    Photovoltaic modules  
  
   Model:      See clause 1.4

Test specification:            IEC 61215-1:2021  
   EN IEC 61215-1:2021/AC:2021  
   IEC 61215-1-1:2021  
   EN IEC 61215-1-1:2021  
   IEC 61215-2:2021  
   EN IEC 61215-2:2021  
   IEC 61730-1:2023  
   IEC 61730-2:2023

Purpose of examination:      • Testing and evaluation (visual / partial) according to the test  
   specification

Test result: The test results show that the presented product is in compliance with the above listed test specifications.

*Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question. It does not imply a general statement regarding the quality of products from regular production. For further details please see testing and certification regulation, chapter A-3.4.*

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## 1. Description of the test object

### 1.1 Picture(s)

N/A

### 1.2 Function

Manufacturer's specification for intended use:

The PV modules for electricity generation systems with max. voltage of 1500 V DC

•

### 1.3 Consideration of the foreseeable use

☐ Not applicable

☒ Covered through the applied standard

☐ Covered by the following comment\*

☐ Covered by attached risk analysis

\*

### 1.4 Technical Data

Model : JAM78D40-xxx/MB, xxx = 610 to 640 in steps of 5  
 JAM78D40-xxx/GB, xxx = 610 to 640 in steps of 5  
 JAM72D40-xxx/MB, xxx = 565 to 590 in steps of 5  
 JAM72D40-xxx/GB, xxx = 565 to 590 in steps of 5  
 JAM72D30-xxx/MB, xxx = 530 to 555 in steps of 5  
 JAM72D40-xxx/LB, xxx = 560 to 595 in steps of 5  
 JAM54D40-xxx/LB, xxx = 420 to 445 in steps of 5  
 JAM54D40-xxx/LR, xxx = 420 to 445 in steps of 5  
 JAM72D30-xxx/LB, xxx = 555 to 570 in steps of 5  
 JAM72D42-xxx/LB, xxx = 605 to 640 in steps of 5  
 JAM66D42-xxx/MB, xxx = 555 to 595 in steps of 5  
 JAM66D45-xxx/LB, xxx = 580 to 620 in steps of 5  
 xxx is standing for rated output power at STC

Rated  
output  
Power at  
STC : See above

Max.  
system : 1500 V DC  
voltage

## 2. Order

### 2.1 Date of Purchase Order, Customer's Reference

The order dated 2023-11-28

### 2.2 Test Sample(s)

- Reception date(s): 2023-11-28
- Location(s) of reception:
  - 1. Yangzhou Opto-Electrical Products Testing Institute  
No. 10 West Kaifa Road, Yangzhou, 225009 Jiangsu,  
P. R. China
  - 2. Hefei JA Solar Technology Co., Ltd  
No. 999, Changning Road, Hi-tech Zone, 230088  
Hefei City, Anhui Province, PEOPLE'S REPUBLIC of  
CHINA
- Condition of test sample(s): In good condition

### 2.3 Testing

- Testing date(s): 2023-11-28 to 2024-01-28
  - Location(s) of testing:
    - 1. Yangzhou Opto-Electrical Products Testing Institute  
No. 10 West Kaifa Road, Yangzhou, 225009 Jiangsu,  
P. R. China
    - 2. Hefei JA Solar Technology Co., Ltd  
No. 999, Changning Road, Hi-tech Zone, 230088  
Hefei City, Anhui Province, PEOPLE'S REPUBLIC of  
CHINA
- Remarks:

### 2.4 Points of Non-Compliance or Exceptions of the Test Procedure

- N/A

## 3. Test Results

- “Decision rule according to IEC Guide 115:2023, clause 4.3.3 was applied.”

### 3.1 Positive Test Results

Test specification(s)	Report no. / Rev. No.	Date	Remark
Electrical safety:	704062302133-03	2024-02-06	Refer to clause 4.1
Mechanical safety:	704062302133-03	2024-02-06	Refer to clause 4.1
Functional safety:	N/A	N/A	N/A
Cyber security:	N/A	N/A	N/A
EMF / EMC / Radiation:	N/A	N/A	N/A
Outdoor / Noise / Vibration:	N/A	N/A	N/A
Pressure vessels:	N/A	N/A	N/A
DVGW:	N/A	N/A	N/A
Chemical requirements / compounds:	N/A	N/A	N/A
PAH:	N/A	N/A	N/A
Batteries:	N/A	N/A	N/A
LFGB / Hygiene:	N/A	N/A	N/A
Energy efficiency:	N/A	N/A	N/A
Explosion Protection:	N/A	N/A	N/A
Other specifications:	N/A	N/A	Refer to clause 4.1

## 3.2 Points of Non-Compliance according to the test specification

- None

## 4. Test History

N/A

## 5. Remarks

### 5.1 General

Based on previous project 704062302133-02, following modifications were included:

1. Removed below factories:

- a. Vina Solar Technology Co., Ltd (090968)
- b. YuanTech Solar Co., Ltd. (117043)
- c. VIET NAM EMPIRE SOLAR ENERGY COMPANY LIMITED (119123)
- d. Anhui Tianda New Energy Co., Ltd. (120210)

2. Extended the power range for below model families (within 10%):

JAM78D40-xxx/MB, xxx = 610 to 640 in steps of 5

JAM78D40-xxx/GB, xxx = 610 to 640 in steps of 5

JAM72D40-xxx/MB, xxx = 565 to 590 in steps of 5

JAM72D40-xxx/GB, xxx = 565 to 590 in steps of 5

JAM72D42-xxx/LB, xxx = 605 to 640 in steps of 5

JAM66D42-xxx/MB, xxx = 555 to 595 in steps of 5

JAM66D45-xxx/LB, xxx = 580 to 620 in steps of 5

JAM78D40-640/MB, JAM72D42-640/LB, JAM66D42-595/MB, JAM66D45-620/LB were selected as the representative model for qualification of higher end power class.

Construction check was conducted according to IEC 61730-1:2023.

The user manual has been examined according to the minimum requirements described in the product standard. The manufacturer is responsible for the accuracy of further particulars as well as of the composition and layout.



## 5.2 Factory surveillance cycle

Your production facility is currently on the following surveillance cycle.

- ☒ Annual (12 month)
- ☐ Bi-Annual (6 month)
- ☐ Quarterly (3 month)
- ☐

## 5.3 Additional information for routine tests to be performed by the factory(ies)

### Routine tests for electrical appliances / equipment:

Routine test requirements for production are described in 70.197.24.079395.13, 70.197.23.95903.08, 70.197.23.108746.04, 70.197.23.072092.16, 70.197.22.109998.03, 70.197.23.112017.03, 70.197.23.113943.03, 70.197.23.114922.03, 70.197.23.004170.12, 70.197.23.117684.02, 70.197.23.114994.01, 70.197.23.120736.01, 70.197.23.115500.04, 70.197.23.120016.01, 70.197.23.108093.02, 70.197.23.121678.01, 70.197.23.123101.01, 70.197.23.123430.01.

## 6. Documentation

File	File name	Date
Data form (CDF):	704062302133-03CDF_TUV MARK_E	2024-02-06
Photo documentation:	N/A	N/A
User manual:	N/A	N/A
Installation manual:	704062302133-03MAN_TUV MARK_E	N/A

## 7. Summary

"The test specifications are met"

## TÜV SÜD Certification and Testing (China)Co., Ltd. Shanghai Branch

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# Technical Report



Tested by: Rongwei Jing *Ting Rongwei*  
*printed name, function & signature*

Approved by: Guangxia Fu  
*printed name, function & signature*