




Technical Report No. 64.290.17.00234.01

Rev. 00

Dated 2017-07-20

Client: MOSO Shenzhen Electric Co.,Ltd
1-7th Floor (A Zone), Songbai road 1061Xili, Nanshan District 518108 Shenzhen, Guangdong, PEOPLE'S REPUBLIC OF CHINA
Mr. Qiang Zhang

Manufacturing place: Same as above

Test subject: Product: Grid-interactive inverter
Type: ST10000TL, ST12000TL, ST15000TL, ST17000TL, ST20000TL
Trade mark (if any): **MOSO**[®] 

Test specification: IEC 60068-2-1:2007
IEC 60068-2-2:2007
IEC 60068-2-14:2009
IEC 60068-2-30:2005
IEC 61683:1999

Purpose of examination: • Test according to the test specification

Test result: The test results show that the presented product is in compliance with the specified requirements

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1 Description of the test subject

1.1 Function

Manufacturer's specification for intended use:

The PV grid-connected inverters are intended to be connected in parallel to the public grid, for outdoor use

1.2 Consideration of the foreseeable misuse

Not applicable

Covered through the applied standard

Covered by the following comment

Covered by attached risk analysis

1.3 Technical Data

Model	ST10000TL	ST12000TL	ST15000TL	ST17000TL	ST20000TL
V _{max} PV	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.
I _{sc} PV	25 A	25 A	25 A	25 A	25 A
PV input operating voltage range	250-1000 Vd.c.	250-1000 Vd.c.	250-1000 Vd.c.	250-1000 Vd.c.	250-1000 Vd.c.
Maximum operating PV input current	20 Ad.c.	20 Ad.c.	20 Ad.c.	20 Ad.c.	20 Ad.c.
Nominal a.c. output voltage	230 / 400 V, 3 / N / PE	230 / 400 V, 3 / N / PE	230 / 400 V, 3 / N / PE	230 / 400 V, 3 / N / PE	230 / 400 V, 3 / N / PE
Nominal a.c. output frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Maximum continuous a.c. output current	16 A	19 A	24 A	25 A	30 A
Maximum a.c. output power	10 kW	12 kW	15 kW	17 kW	20 kW
Power factor	-0,9 to +0,9	-0,9 to +0,9	-0,9 to +0,9	-0,9 to +0,9	-0,9 to +0,9
Protection class	I	I	I	I	I
Pollution degree	PD 2	PD 2	PD 2	PD 2	PD 2
Overvoltage category (OVC)	II (PV), III (Grid)	II (PV), III (Grid)	II (PV), III (Grid)	II (PV), III (Grid)	II (PV), III (Grid)
Ingress protection	IP65	IP65	IP65	IP65	IP65



2 Order

2.1 Date of Purchase Order, Customer's Reference

2017-03-10

2.2 Receipt of Test Sample, Location

2017-06-05, TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch

2.3 Date of Testing

2017-06-06 to 2017-07-20

2.4 Location of Testing

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

5F, Communication Building, 163 Pingyun Rd, Huangpu Ave. West, Guangzhou 510656, P. R. China

2.5 Points of Non-compliance or Exceptions of the Test Procedure

None

3 Test Results

3.1 Positive Test Results

- Environmental test (Report No.: 64.110.17.00234.01 Part1 - Part4 Dated: 2017-07-20)
- Power efficiency (Report No.: 64.110.17.00234.01 Part5 Dated: 2017-07-20)

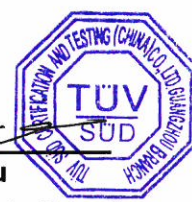
4 Summary

The test specifications are met.

**TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
TÜV SÜD Group**

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Project Handler

Technical Report checked: Billy Qiu
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Designated Reviewer



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