



National Testing Center for Digital Electronic Product (TDE)
Shenzhen Academy of Metrology and Quality Inspection (SMQ)

Certificate

Of

Compliance

No: **WT138003448**

The applicant

Samil Power Co., Ltd.

**No.6, Xuefengshan Road, Suqian High-tech Industrial Development
Zone, Jiangsu Province, P.R. China**

has successfully demonstrated that its product

**PV Grid-tied Inverter
SolarPond 240HF**

is compliant with

FCC part15 Subpart B

The certificate of compliance shows that the tested sample technically complies with the standards listed above.
The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole
production.

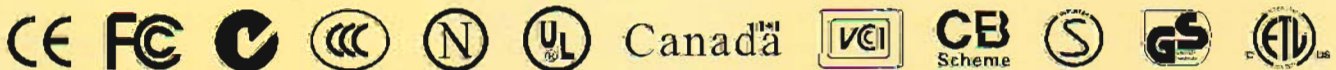


Authorized Signer:



Issued Date:

Nov. 12, 2013



FCC TEST REPORT

For

PV Grid-tied Inverter

Model Number: SolarPond 240HF

Report Number : WT138003448

Test Laboratory : Shenzhen Academy of Metrology and Quality Inspection
National Digital Electronic Product Testing Center
Site Location : NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China
Tel : 0086-755-86928965
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Web : www.smq.com.cn



TEST REPORT DECLARATION

Applicant : Samil Power Co., Ltd.

Address : No.6, Xuefengshan Road, Suqian High-tech Industrial
Development Zone, Jiangsu Province, P.R. China

Manufacturer : Samil Power Co., Ltd.

Address : No.6, Xuefengshan Road, Suqian High-tech Industrial
Development Zone, Jiangsu Province, P.R. China

Factory : Samil Power Co., Ltd.

Address : No.6, Xuefengshan Road, Suqian High-tech Industrial
Development Zone, Jiangsu Province, P.R. China

EUT Description : PV Grid-tied Inverter

MODEL No : SolarPond 240HF

Trade mark : SAMILPOWER

Test Standards:

FCC Part 15 Subpart B

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project Engineer:  Date: Nov. 12, 2013
(Zhuo Cunming)

Checked by:  Date: Nov. 12, 2013
(Yang DongPing)

Approved by:  Date: Nov. 12, 2013
(Lin Bin)



TABLE OF CONTENTS

TEST REPORT DECLARATION	2
1. TEST RESULTS SUMMARY	4
2. GENERAL INFORMATION	5
2.1. Report information.....	5
2.2. Laboratory Accreditation and Relationship to Customer	5
2.3. Measurement Uncertainty	5
3. PRODUCT DESCRIPTION	6
3.1. EUT Description.....	6
3.2. Block Diagram of EUT Configuration	6
3.3. Operating Condition of EUT.....	6
3.4. Test Conditions.....	6
3.5. Modifications	6
4. TEST EQUIPMENT USED	7
4.1. Test Equipment Used to Measure Radiated Disturbance.....	7
5. RADIATION DISTURBANCE TEST	8
5.1. Test Standard and Limit	8
5.2. Test Procedure	8
5.3. Test Arrangement.....	8
5.4. Test Data	8
APPENDIX I TEST PICTURE	12

1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	FCC Rules	Test Results
Radiation Emission (Class B)	15.109	Pass

Remark: "N/A" means "Not applicable."

2. GENERAL INFORMATION

2.1. Report information

- 2.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at No.4 TongFa Road, Xili Town, Nanshan District, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (**CNAS**) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is **CNAS L0579**.

The Laboratory is listed in the United States of American Federal Communications Commission (**FCC**), and the registration number are **446246 806614 994606**(semi anechoic chamber).

The Laboratory is registered to perform emission tests with Industry Canada (**IC**), and the registration number is **11177A**.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is **E2024086Z02**.

2.3. Measurement Uncertainty

Radiated Emission

30MHz~1000MHz 4.5dB

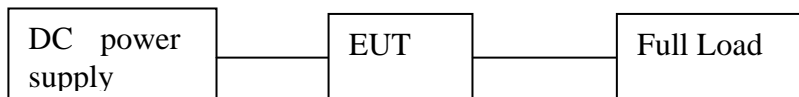
1GHz~18GHz 4.6dB

3. PRODUCT DESCRIPTION

3.1.EUT Description

Applicant : Samil Power Co., Ltd.
Description : PV Grid-tied Inverter
Model Number : SolarPond 240HF
Input : 48Vdc, 9.5A max.
Trade mark : SAMILPOWER
Test Voltage : DC 48V

3.2.Block Diagram of EUT Configuration



3.3.Operating Condition of EUT

Test mode 1: Full Load

3.4.Test Conditions

Date of test : Nov.11, 2013- Nov.11, 2013
Date of EUT Receive : Nov.08, 2013
Temperature: 26°C
Relative Humidity:51%

3.5.Modifications

No modification was made.

4. TEST EQUIPMENT USED

4.1. Test Equipment Used to Measure Radiated Disturbance

Table 2 Radiated Disturbance Test Equipment

No.	Equipment	Manufacturer	Model No.	LAST CALIB	Period
SB9054	EMI Test Receiver	Rohde & Schwarz	ESCI3	Mar.20,2013	1 Year
SB9054/07	Bilog Antenna	SCHWARZBECK	VULB9163	Mar.20,2013	1 Year

5. RADIATION DISTURBANCE TEST

5.1. Test Standard and Limit

5.1.1. Test Standard

FCC Part 15: Section 15.109

5.1.2. Test Limit

Table 3 Radiation Disturbance Test Limit (Class B)

Frequency	Test distance	Limit (dB μ V/m)	
		Quasi-peak	Average
30MHz~88MHz	10m	30.0	
88MHz~216MHz	10m	33.5	
216MHz~960MHz	10m	36.0	
960MHz~1000MHz	10m	44.0	
Above 1000MHz	3m		54.0

* The lower limit shall apply at the transition frequency.

5.2. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set **3 meters** away from the receiving antenna, which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

5.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

5.4. Test Data

The emissions don't show in below are too low against the limits, the test curves are shown in the next page.

Table 4 Radiated Disturbance Test Data

Model No.: SolarPond 240HF			
Test Mode: 1			
Frequency MHz	Readings dB(μ V/m)	Polarization	Limits dB (μ V/m)
32.667	26.4	Vertical	30.0
36.790	26.4	Vertical	30.0
94.020	23.1	Horizontal	33.5

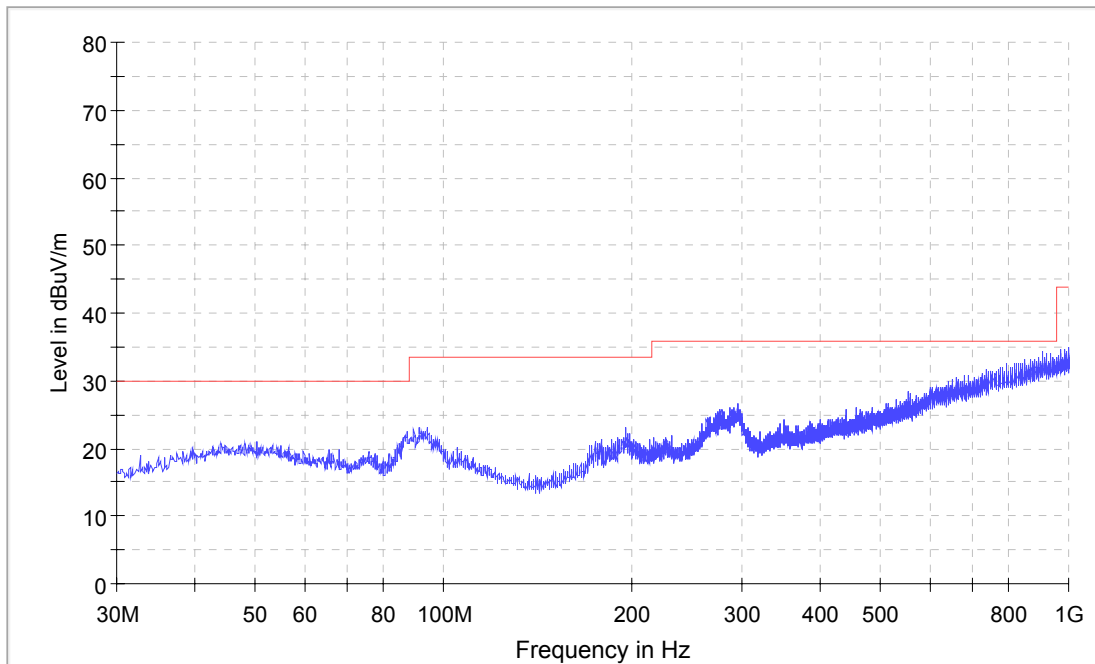
EUT Information

EUT Model Name: SolarPond 240HF
Operate Mode: Full Load

Common Information

Test Site: SMQ EMC Lab.
Antenna Polarization: Horizontal
Environment
Operator Name:
Test Voltage:
Comment:

Copy of Normal_RE_TT3m distance



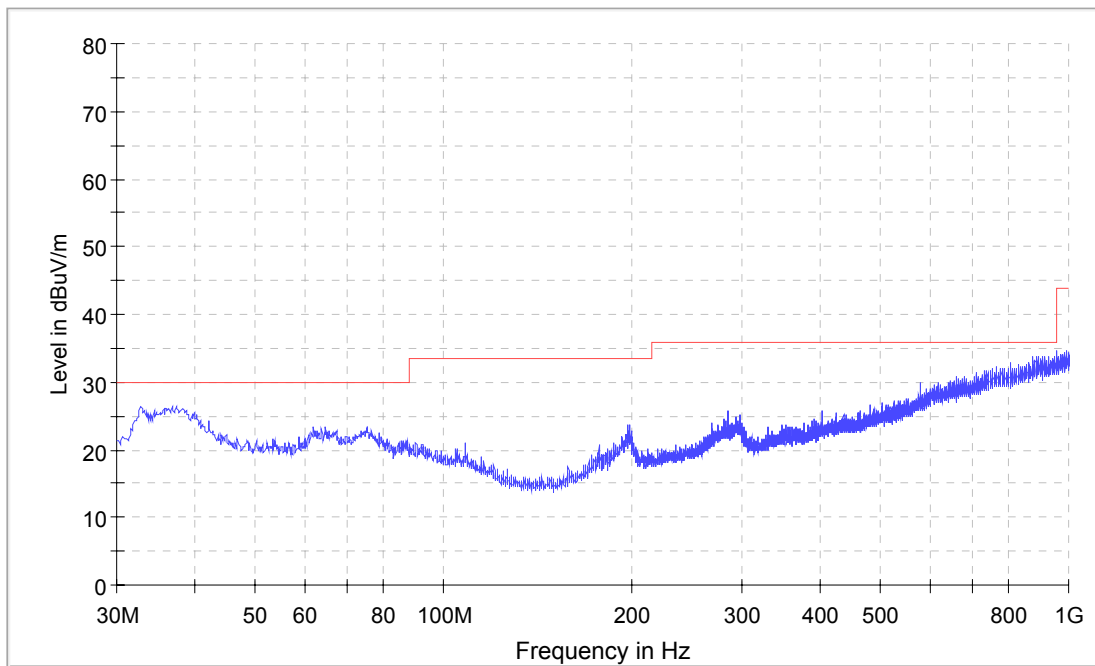
EUT Information

EUT Model Name: SolarPond 240HF
Operate Mode: Full Load

Common Information

Test Site: SMQ EMC Lab.
Antenna Polarization: Vertical
Environment
Operator Name:
Test Voltage:
Comment:

Copy of Normal_RE_TT3m distance



APPENDIX I TEST PICTURE

Photo 1 Radiated Disturbance Test

