FCC RF EXPOSURE REPORT

For

Solar Inverter

MODEL NUMBER:
SUN2000-25KTL-NAM3, SUN2000-30KTL-NAM3,
SUN2000-33KTL-NAM3, SUN2000-36KTL-NAM3,
SUN2000-40KTL-NAM3

FCC ID: QISSUN2000

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Prepared for

Huawei Technologies Co., Ltd.
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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	06/05/2021	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Huawei Technologies Co., Ltd.
Address:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, China

Manufacturer Information

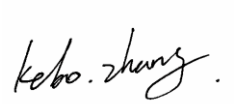
Company Name:	Huawei Technologies Co., Ltd.
Address:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, China

EUT Information

EUT Name:	Solar Inverter
Model:	SUN2000-25KTL-NAM3, SUN2000-30KTL-NAM3, SUN2000-33KTL-NAM3, SUN2000-36KTL-NAM3, SUN2000-40KTL-NAM3
Model differences:	Please refer to section 4.
Sample Status:	Normal
Sample Received Date:	June 4, 2021
Date of Tested:	June 4, 2021

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC 47CFR§2.1091	PASS

Prepared By:

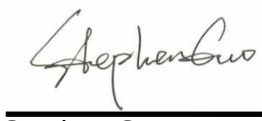


Kebo Zhang
Project Engineer

Checked By:

Shawn Wen
Laboratory Leader

Approved By:



Stephen Guo
Laboratory Manager

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. **VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China.

4. DESCRIPTION OF EUT

EUT Name	Solar Inverter
Model	SUN2000-25KTL-NAM3, SUN2000-30KTL-NAM3, SUN2000-33KTL-NAM3, SUN2000-36KTL-NAM3, SUN2000-40KTL-NAM3
Model Difference	All the models have the same RF technical construction including circuit diagram, PCB Layout, components, component layout and performance.
Radio Technology	WLAN (IEEE 802.11b/g/n HT20)
Operation frequency	IEEE 802.11b: 2412MHz ~ 2462MHz IEEE 802.11g: 2412MHz ~ 2462MHz IEEE 802.11n HT20: 2412MHz ~ 2462MHz
Modulation	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK)

5. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (Minutes)
0.3 -- 1.34	614	1.63	(100)*	30
1.34 -- 30	824/f	2.19/f	($180/f^2$)*	30
30 -- 300	27.5	0.073	0.2	30
300 -- 1500	--	--	f/1500	30
1500 -- 100,000	--	--	1.0	30

CALCULATION METHOD

$S=PG/4\pi R^2$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

CALCULATED RESULTS

WIFI Mode					
Frequency	Max. tune up power	Output Power	Power Density	Power Density Limit	Test Result
MHz	dBm	mW	mW/cm^2	mW/cm^2	--
2412~2462	17	50.12	0.01922	1.0	Complies

Note: 1. Antenna Gain=2.85dBi (Numeric 1.93), π=3.141.
2. The minimum separation distance of the device is greater than 20 cm.
3. Calculate by WORST-CASE mode.

END OF REPORT