



EU Declaration of Conformity

(No. CE-05657442)

We **Huawei Technologies Co., Ltd.**

**Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129, P.R.C**

declare that the product

Name/Trademark : SOLAR INVERTER/HUAWEI

Model : SUN2000-100KTL-M1

SUN2000-100KTL-INM0

complies with the following directives:

- **2014/35/EU (Low Voltage Directive)**
- **2014/30/EU (EMC Directive)**
- **2011/65/EU & (EU) 2015/863 (RoHS Directive)**

For the evaluation of the compliance with these Directives, the following standards/implementing regulations have been applied:

Safety	EN 62109-1:2010(First Edition) EN 62109-2:2011(First Edition)
EMC	EN 62920:2017 EN 55011:2016+A1:2017(Group 1,Class A) EN 61000-6-2:2005 EN 61000-6-3:2007+A1:2011(Telecom Port) EN 61000-6-4:2007+A1:2011(Telecom Port) EN 61000-3-11:2001 EN 61000-3-12:2011
RoHS	EN 50581: 2012

This declaration of conformity is issued under the sole responsibility of the manufacturer.

CE Marking Date: 2019-10-09

Responsible for making this declaration is the:

Manufacturer Authorised representative established within the EU

Signed for and on behalf of: Huawei Technologies Co., Ltd.

Print name/Title : Ling HongDong / Regulation Compliance Manager

Shenzhen, China
(Place)

2019-10-09
(Date)

Ling Hong Dong
(Signature)



EU Declaration of Conformity

(No. CE-03862562-1)

We **Huawei Technologies Co., Ltd.**

**Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129, P.R.C**

declare under our own responsibility that the product

Name/Trademark SOLAR INVERTER/HUAWEI

Model SUN2000-50KTL-M0
SUN2000-60KTL-M0

comply with the following directives and regulations:

- **2014/35/EU (Low Voltage Directive)**
- **2014/30/EU (EMC Directive)**
- **2011/65/EU (RoHS Directive)**

For the evaluation of the compliance with these Directives and Regulations, the following standards/requirements were applied:

Safety	EN 62109-1:2010 EN 62109-2:2011
EMC	EN 61000-6-1:2007 EN 61000-6-2:2005 EN 61000-6-3:2007+A1:2011* EN 61000-6-4:2007+A1:2011 EN 61000-3-11:2000 EN 61000-3-12:2011
RoHS	EN 50581: 2012

Note: * The PLC communication mode or AC 480V power supply mode of solar inverter is not apply to this standard.

CE Marking Date: 2018-03-16

Responsible for making this declaration is the:

Manufacturer Authorised representative established within the EU

Person responsible for making this declaration

Print name/Title : LingHongDong Regulation Compliance Manager

China, Shenzhen Mar. 16, 2018
(Place) (Date)

Ling Hong Dong
(Signature)



EU Declaration of Conformity

(No. CE-07136699)

We **Huawei Technologies Co., Ltd.**

**Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129, P.R.C**

declare under our sole responsibility that the product

Name/Trademark	Solar Inverter/HUAWEI
Model/Software	SUN2000-40KTL-M3, SUN2000-36KTL-M3, SUN2000-30KTL-M3 SUN2000-29.9KTL-M3/V100
Accessories	NA

comply with the following directives and regulations:

- **2014/53/EU(Radio Equipment Directive)**
- **2011/65/EU & (EU) 2015/863 (RoHS Directive)**

For the evaluation of the compliance with these Directives and Regulations, the following standards/requirements were applied:

Artificial 3.1 (a) Safety & Health	EN 62109-1:2010 EN IEC 62311:2020
Artificial 3.1 (b) EMC	EN 55011:2016 EN 55011:2016+A1:2017 EN 62920:2017 EN 61000-6-1:2007 EN IEC 61000-6-1:2019 EN 61000-6-2:2005 EN IEC 61000-6-2:2019 EN 61000-3-11:2000 EN IEC 61000-3-11:2019 EN 61000-3-12:2011 ETSI EN 301 489-1 V2.2.3:2019 ETSI EN 301 489-17 V3.2.4:2020 EN 61000-6-3:2007+A1:2011 EN 61000-6-4:2007+A1:2011 EN IEC 61000-6-4:2019
Artificial 3.2 Radio	ETSI EN 300 328 V2.2.2(2019-07)
RoHS	EN 50581:2012

CE Marking Date: 2020-11-06

Responsible for making this declaration is the:

Manufacturer Authorised representative established within the EU

Person responsible for making this declaration

Print name/Title : LingHongDong Regulation Compliance Manager

China, Shenzhen 2020-11-06
(Place) (Date)

Ling Hong Dong
(Signature)

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

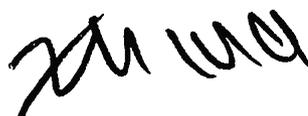
Product	Converter SOLAR INVERTER
Name and address of the applicant	Huawei Technologies Co., Ltd. Administration Building Headquarters of Huawei Technologies Co., Ltd. Bantian, Longgang District 518129 Shenzhen PEOPLE'S REPUBLIC OF CHINA
Name and address of the manufacturer	Huawei Technologies Co., Ltd. Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, 518129 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Name and address of the factory	ShenZhen FuGui Precision Industry Co., Ltd. F8d District, Foxconn Science and Technology Industrial Park, East side of Min Qing Road, Longhua District, Longhua Subdistrict, Longhua District, 518110 Shenzhen, PEOPLE'S REPUBLIC OF CHINA Huawei Machine Co., Ltd. No. 2, New City Avenue, Songshan Lake Sci. & Tech. Industry Park, 523808 Dongguan, PEOPLE'S REPUBLIC OF CHINA Dongguan Yang Tian Electronic Technology Co., Ltd. (i-Brights) No.152, Luyuan Rd., Keyuancheng, Tangxia Town, 523710 Dongguan City, Guangdong Province, PEOPLE'S REPUBLIC OF CHINA DongGuan Fuyi Precision Industry Co.,Ltd. Floor 1st-4th, Building 12, No.6, Songshui Road, Songmu Village, Weifeng Industrial City, Dalang Town, 523770 Dongguan, Guangdong, PEOPLE'S REPUBLIC OF CHINA

Page 1 of 5

This CB Test Certificate is issued by the National Certification Body

CB 041829 4413 Rev. 01

Date, 2020-12-28



(Zhengdong Ma)

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany



Product Service

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

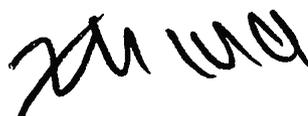
Ratings and principal characteristics

General Parameters:

Model	For all models
d.c. Max. Input Voltage:	1100Vd.c.(All models) 800Vd.c.(SUN2000-20KTL-M3)
d.c. Max. Input Current:	26A/26A/26A/26A
Isc PV:	40A/40A/40A/40A
MPP Voltage Range:	200–1000Vd.c.(All models) 200–750Vd.c.(SUN2000-20KTL-M3)
a.c. Nominal Operating Frequency:	50/60Hz
Power Factor:	0.8 leading ... 0.8 lagging
Protection Class:	Class I
Ingress Protection:	IP66
Overvoltage Category:	II(PV), III(MAINS)
Operating Temperature Range:	-25°C ... +60°C
Pollution Degree:	III
Inverter Topology:	Non-isolation
Remark: There are two versions for model SUN2000-20KTL-M3.	

AC Output Parameters:

Model	SUN2000-15KTL-M3	SUN2000-17KTL-M3
a.c. Output Nominal Voltage:	3/N/PE~ 380/400Va.c.	3/N/PE~ 380/400Va.c.
a.c. Max. Output Current:	25.2A	28.5A
a.c. Rated Output Power:	15kW	17kW
a.c. Max. Output Apparent Power:	16.5kVA	18.7kVA



(Zhengdong Ma)



IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

Ratings and principal characteristics

Model	SUN2000-20KTL-M3	SUN2000-23KTL-M3
a.c. Output Nominal Voltage:	3/N/PE~ 380/400Va.c. 3/N/PE~ 220/400Va.c.	3/N/PE~ 380/400Va.c.
a.c. Max. Output Current:	33.5A (380Va.c.) 31.9A (400Va.c.) 58.0A (220Va.c.)	35.1A
a.c. Rated Output Power:	20kW	23kW
a.c. Max. Output Apparent Power:	22kVA	23kVA

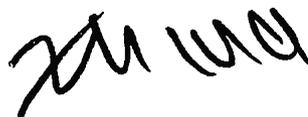
Model	SUN2000-28KTL-M3	SUN2000-29.9KTL-M3
a.c. Output Nominal Voltage:	3~ 480Va.c.	3/N/PE~ 400Va.c. 3~ 480Va.c.
a.c. Max. Output Current:	33.5A	43.2A (400Va.c.) 36.0A (480Va.c.)
a.c. Rated Output Power:	27.5kW	29.9kW
a.c. Max. Output Apparent Power:	27.5kVA	29.9kVA

Page 3 of 5

This CB Test Certificate is issued by the National Certification Body

CB 041829 4413 Rev. 01

Date, 2020-12-28



(Zhengdong Ma)

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany



Product Service

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

Ratings and principal characteristics

Model	SUN2000-30KTL-M3	SUN2000-36KTL-M3
a.c. Output Nominal Voltage:	3/N/PE~ 380/400/440/480Va.c.	3/N/PE~ 380/400/440/480Va.c.
a.c. Max. Output Current:	50.4A (380Va.c.) 47.9A (400Va.c.) 43.5A (440Va.c.) 39.9A (480Va.c.)	61.1A (380Va.c.) 58.0A (400Va.c.) 52.8A (440Va.c.) 48.4A (480Va.c.)
a.c. Rated Output Power:	30kW	36kW
a.c. Max. Output Apparent Power:	33kVA	40kVA

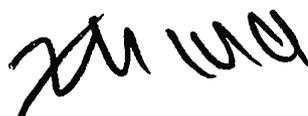
Model	SUN2000-40KTL-M3	SUN2000-42KTL-M3
a.c. Output Nominal Voltage:	3/N/PE~ 380/400/440/480Va.c.	3~ 480Va.c.
a.c. Max. Output Current:	67.2A (380Va.c.) 63.8A (400Va.c.) 58.0A (440Va.c.) 53.2A (480Va.c.)	56.8A
a.c. Rated Output Power:	40kW	42kW
a.c. Max. Output Apparent Power:	44kVA	47kVA

Page 4 of 5

This CB Test Certificate is issued by the National Certification Body

CB 041829 4413 Rev. 01

Date, 2020-12-28



(Zhengdong Ma)

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany



Product Service

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

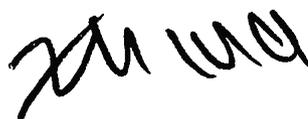
Trade mark (if any)	HUAWEI
Model/type Ref.	SUN2000-15KTL-M3, SUN2000-17KTL-M3, SUN2000-20KTL-M3, SUN2000-23KTL-M3, SUN2000-28KTL-M3, SUN2000-29.9KTL-M3, SUN2000-30KTL-M3, SUN2000-36KTL-M3, SUN2000-40KTL-M3, SUN2000-42KTL-M3.
Additional information (if necessary)	DE 3 - 9160 issued on 2020-11-25 is replaced by this version due to technical changes.
A sample of the product was tested and found to be in conformity with	IEC 62109-1:2010 IEC 62109-2:2011
as shown in the Test Report Ref. No. which forms part of this certificate	083-52008203-100
Ratings and principal characteristics (continued)	

Page 5 of 5

This CB Test Certificate is issued by the National Certification Body

CB 041829 4413 Rev. 01

Date, 2020-12-28



(Zhengdong Ma)

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany



Product Service



**BUREAU
VERITAS**

**Bureau Veritas
Consumer Products Services
Germany GmbH**

Businesspark A96
86842 Türkheim
Germany
+ 49 (0) 40 740 41 – 0
cps-tuerkheim@de.bureauveritas.com

Certification body of BV CPS GmbH
Accredited according to EN 45011 -
ISO / IEC Guide 65

Certificate of compliance

Applicant: **Huawei Technologies Co., Ltd.**
Administration Building, Headquarters of Huawei
Technologies Co., Ltd., Bantian, Longgang District,
Shenzhen, 518129
P.R. China

Product: **Photovoltaic (PV) inverter**

Model: **SUN2000-8KTL, SUN2000-10KTL, SUN2000-12KTL,
SUN2000-15KTL, SUN2000-17KTL, SUN2000-20KTL,
SUN2000-23KTL, SUN2000-28KTL**

Use in accordance with regulations:

Automatic disconnection device with three-phase mains surveillance in accordance with IEC 61727:2004 and IEC62116:2008 for photovoltaic systems with a three-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the aforementioned inverters.

Applied rules and standards :

IEC 61727:2004

Photovoltaic (PV) systems – Characteristics of the utility interface

IEC 62116:2008

Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters

At the time of issue of this certificate the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

Report number: **12TH0607-IEC61727
12TH0607-IEC62116**

Certificate number: **U14-0187**

Date of issue: **2014-03-19**

Certification body

Dieter Zitzmann



Deutsche
Akkreditierungsstelle
D-ZE-12024-01-01



QUALITY



HEALTH



SAFETY



ENVIRONMENT



SOCIAL
ACCOUNTABILITY



**BUREAU
VERITAS**

Certificate of compliance

Applicant: Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129,
P.R. China

Product: SOLAR INVERTER

Model: SUN2000-15KTL-M3, SUN2000-17KTL-M3, SUN2000-20KTL-M3, SUN2000-23KTL-M3,
SUN2000-28KTL-M3, SUN2000-29.9KTL-M3, SUN2000-30KTL-M3, SUN2000-36KTL-M3,
SUN2000-40KTL-M3, SUN2000-42KTL-M3, SUN2000-43KTL-INM3, SUN2000-44KTL-M3,
SUN2000-50KTL-M3

Use in accordance with regulations:

Automatic disconnection device with three-phase mains surveillance in accordance with IEC 61727:2004 and IEC62116:2014 for photovoltaic systems with a three-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the aforementioned inverters.

Applied rules and standards :

IEC 61727:2004

Photovoltaic (PV) systems – Characteristics of the utility interface

IEC 62116:2014

Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters

At the time of issue of this certificate the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

Report number: PV200511N092-1
PV200511N092-6

Certification program: NSOP-0032-DEU-ZE-V01

Certificate number: U20-0793

Date of issue: 2020-10-02

Certification body



Thomas Lammel



Certification body Bureau Veritas Consumer Products Services Germany GmbH accredited according to DIN EN ISO/IEC 17065
A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH



Certificate of compliance

Applicant: **Huawei Technologies Co., Ltd.**
Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129
P.R. China

Product: **SOLAR INVERTER**

Model: **SUN2000-100KTL-M1**
SUN2000-100KTL-INM0

Use in accordance with regulations:

Automatic disconnection device with three-phase mains surveillance in accordance with IEC 61727:2004 and IEC62116:2014 for photovoltaic systems with a three-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the aforementioned inverters.

Applied rules and standards:

IEC 61727:2004
Photovoltaic (PV) systems – Characteristics of the utility interface

IEC 62116:2014
Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters

At the time of issue of this certificate the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

Report number: **PV190905N026**
PV190905N026-1

Certification program: **NSOP-0032-DEU-ZE-V01**

Certificate number: **U19-0535**

Date of issue: **2019-09-19**

Certification body



Holger Schaffer



Certification body Bureau Veritas Consumer Products Services Germany GmbH accredited according to DIN EN ISO/IEC 17065
A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH



Product Service

Compliance Document

No. D 18 04 41829 03137

Holder of Certificate: **Huawei Technologies Co., Ltd.**

Administration Building
Headquarters of Huawei Technologies Co., Ltd.
Bantian, Longgang District
518129 Shenzhen
PEOPLE'S REPUBLIC OF CHINA

Product:

**Converter
SOLAR INVERTER**

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. See also notes overleaf.

Test report no.:

704091805118-00



Date, 2018-04-12


(Zhengdong Ma)

Page 1 of 2



Product Service

Compliance Document
No. D 18 04 41829 03137

Model(s): **SUN2000-50KTL-M0, SUN2000-60KTL-M0,
 SUN2000-65KTL-M0, SUN2000-70KTL-INM0**

Parameters:

d.c. Max. Input Voltage:	1100 Vd.c.
d.c. MPP Range:	200-1000 Vd.c.
d.c. Max. Input Current:	22 A /22 A /22 A /22 A / 22 A /22 A
Isc PV:	30 A /30 A /30 A /30 A / 30 A /30 A
a.c. Output Nominal Voltage:	For model SUN2000-50KTL-M0: 3/N/PE~ 400V For model SUN2000-60KTL-M0: 3/N/PE~ 400V 3~ 480V (optional) For model SUN2000-65KTL-M0: 3~ 480V For model SUN2000-70KTL-INM0: 3~ 500V
a.c. Nominal Operating Frequency:	50/60 Hz (SUN2000-50KTL-M0, SUN2000-60KTL-M0, SUN2000-65KTL-M0) 50 Hz (SUN2000-70KTL-INM0)
a.c. Output Max. Current:	For model SUN2000-50KTL-M0: 79,4 A (@rated voltage 400V) For model SUN2000-60KTL-M0: 95,3 A (@rated voltage 400V) 79,4 A (@rated voltage 480V) For model SUN2000-65KTL-M0: 87,6 A For model SUN2000-70KTL-INM0: 83,2 A
a.c. Output Rated Power:	50 kW (SUN2000-50KTL-M0) 60 kW (SUN2000-60KTL-M0) 65 kW (SUN2000-65KTL-M0, SUN2000-70KTL-INM0)
a.c. Output Max. Power:	55 kVA (SUN2000-50KTL-M0) 66 kVA (SUN2000-60KTL-M0) 72 kVA (SUN2000-65KTL-M0, SUN2000-70KTL-INM0)
Power factor(adj.):	0,8(lagging)...0,8(leading)
Operating Temperature Range:	-25°C... + 60°C
Protective Class:	I
Ingress Protection:	IP65

Tested according to: IEC 61727:2004
 IEC 62116:2014

Handwritten signature