



Ref. Certif. No.

SG PSB-PV-00027M1

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	Huawei Machine Co., Ltd. No. 2, New City Avenue, Songshan Lake Sci. & Tech. Industry Park, 523808 Dongguan, PEOPLE'S REPUBLIC OF CHINA
Ratings and principal characteristics	See page 3-5
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, SUN2000-50KTL-ZHM3, SUN2000-50KTL-M3
Additional information (if necessary)	Certificate SG PSB-PV-00027 issued on 2022-11-23 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	085-223131701-100

Page 1 of 5

This CB Test Certificate is issued by the National Certification Body

CBS 041829 4971 Rev. 00

Date, 2023-03-21

(Billy Qiu)

TÜV SÜD PSB Pte Ltd 15 International Business Park TÜV SÜD @ IBP Singapore 609937



PSB Singapore



Ref. Certif. No.

SG PSB-PV-00027M1

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

Trademark / Brand (Image)



Name and address of the factory (continued)

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

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

Page 2 of 5

This CB Test Certificate is issued by the National Certification Body

CBS 041829 4971 Rev. 00

Date, 2023-03-21

(Billy Qiu)



IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME
Ratings and principal characteristics

Model	SUN2000-15KTL-M3	SUN2000-17KTL-M3	SUN2000-20KTL-M3	SUN2000-23KTL-M3	SUN2000-28KTL-M3
DC Input					
Maximum input voltage	1100 Vd.c.	1100 Vd.c.	1100 Vd.c.	1100 V d.c.	1100 V d.c.
Maximum input current	26 Ad.c. x 4	26 Ad.c. x 4	26 Ad.c. x 4	26 Ad.c. x 4	26 Ad.c. x 4
Maximum short-circuit current	40 Ad.c. x 4	40 Ad.c. x 4	40 Ad.c. x 4	40 Ad.c. x 4	40 Ad.c. x 4
MPP voltage range	200-1000 Vd.c.	200-1000 Vd.c.	200-1000 Vd.c.	200-1000 Vd.c.	200-1000 Vd.c.
AC Output					
Rated output power	15000 W	17000 W	20000 W	23000 W	27500 W
Maximum apparent power	16500 VA	18700 VA	22000 VA	23000 VA	27500 VA
Rated output voltage	380/400 Va.c. 3W+N+PE	380/400 Va.c. 3W+N+PE	380/400 Va.c. 3W+N+PE	380/400 Va.c. 3W+N+PE	480 Va.c. 3W+PE
Maximum output current	25,2 Aa.c.	28,5 Aa.c.	33,5 Aa.c.	35,1 Aa.c.	33,5 Aa.c.
Output voltage frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power factor	0,8 leading-0,8 lagging	0,8 leading-0,8 lagging	0,8 leading-0,8 lagging	0,8 leading-0,8 lagging	0,8 leading-0,8 lagging
General					
Dimensions (W x H x D)	640 mm x 530 mm x 270 mm	640 mm x 530 mm x 270 mm	640 mm x 530 mm x 270 mm	640 mm x 530 mm x 270 mm	640 mm x 530 mm x 270 mm
Net weight	43 kg	43 kg	43 kg	43 kg	43 kg
Operating temperature	-25°C to +60°C (derated when the temperature is above +45°C)	-25°C to +60°C (derated when the temperature is above +45°C)	-25°C to +60°C (derated when the temperature is above +45°C)	-25°C to +60°C (derated when the temperature is above +45°C)	-25°C to +60°C (derated when the temperature is above +45°C)
Highest operating altitude	4000 m	4000 m	4000 m	4000 m	4000 m
IP rating	IP66	IP66	IP66	IP66	IP66

Page 3 of 5

This CB Test Certificate is issued by the National Certification Body

CBS 041829 4971 Rev. 00

Date, 2023-03-21



(Billy Qiu)

TÜV SÜD PSB Pte Ltd 15 International Business Park TÜV SÜD @ IBP Singapore 609937



PSB Singapore

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

Model	SUN2000-29.9KTL-M3	SUN2000-30KTL-M3	SUN2000-36KTL-M3	SUN2000-40KTL-M3	SUN2000-42KTL-M3
DC Input					
Maximum input voltage	1100 Vd.c.	1100 Vd.c.	1100 Vd.c.	1100 Vd.c.	1100 Vd.c.
Maximum input current	26 Ad.c. x 4	26 Ad.c. x 4	26 Ad.c. x 4	27 Ad.c. x 4	26 Ad.c. x 4
Maximum short-circuit current	40 Ad.c. x 4	40 Ad.c. x 4	40 Ad.c. x 4	40 Ad.c. x 4	40 Ad.c. x 4
MPP voltage range	200-1000 Vd.c.	200-1000 Vd.c.	200-1000 Vd.c.	200-1000 Vd.c.	200-1000 Vd.c.
AC Output					
Rated output power	29900 W	30000 W	36000 W	40000 W	42000 W
Maximum apparent power	29900 VA	33000 VA	39600 VA	44000 VA	47000 VA
Rated output voltage	400 Va.c. 3W+N+PE 480 Va.c. 3W+PE	380/400/440 Va.c. 3W+N+PE 480 Va.c. 3W+PE	380/400/440 Va.c. 3W+N+PE 480 Va.c. 3W+PE	380/400/440 Va.c. 3W+N+PE 480 Va.c. 3W+PE	480 Va.c. 3W+PE
Maximum output current	43,2 Aa.c. (@400 Va.c.) 36,0 Aa.c. (@480 Va.c.)	50,4 Aa.c. (@380 Va.c.) 47,9 Aa.c. (@400 Va.c.) 43,5 Aa.c. (@440 Va.c.) 39,9 Aa.c. (@480 Va.c.)	61,1 Aa.c. (@380 Va.c.) 58,0 Aa.c. (@400 Va.c.) 52,8 Aa.c. (@440 Va.c.) 48,4 Aa.c. (@480 Va.c.)	67,2 Aa.c. (@380 Va.c.) 63,8 Aa.c. (@400 Va.c.) 58,0 Aa.c. (@440 Va.c.) 53,2 Aa.c. (@480 Va.c.)	56,6 Aa.c.
Output voltage frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
Power factor	0,8 leading– 0,8 lagging	0,8 leading– 0,8 lagging	0,8 leading– 0,8 lagging	0,8 leading– 0,8 lagging	0,8 leading– 0,8 lagging
General					
Dimensions (W x H x D)	640 mm x 530 mm x 270 mm	640 mm x 530 mm x 270 mm	640 mm x 530 mm x 270 mm	640 mm x 530 mm x 270 mm	640 mm x 530 mm x 270 mm
Net weight	43 kg	43 kg	43 kg	43 kg	43 kg
Operating temperature	-25°C to +60°C (derated when the temperature is above +45°C)	-25°C to +60°C (derated when the temperature is above +45°C)	-25°C to +60°C (derated when the temperature is above +45°C)	-25°C to +60°C (derated when the temperature is above +45°C)	-25°C to +60°C (derated when the temperature is above +45°C)
Highest operating altitude	4000 m	4000 m	4000 m	4000 m	4000 m
IP rating	IP66	IP66	IP66	IP66	IP66

Page 4 of 5

This CB Test Certificate is issued by the National Certification Body

CBS 041829 4971 Rev. 00

Date, 2023-03-21



(Billy Qiu)

TÜV SÜD PSB Pte Ltd 15 International Business Park TÜV SÜD @ IBP Singapore 609937



PSB Singapore

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

Model	SUN2000-50KTL-M3	SUN2000-50KTL-ZHM3
DC Input		
Maximum input voltage	1100 Vd.c.	1100 Vd.c.
Maximum input current	30 Ad.c. x 4	30 Ad.c. x 4
Maximum short-circuit current	40 Ad.c. x 4	40 Ad.c. x 4
MPP voltage range	200-1000 Vd.c.	200-1000 Vd.c.
AC Output		
Rated output power	50000 W	50000 W
Maximum apparent power	55000 VA	55000 VA
Rated output voltage	380/400 Va.c. 3W+N+PE 480 Va.c. 3W+PE	380/400 Va.c. 3W+N+PE 480 Va.c. 3W+PE
Maximum output current	84,0 Aa.c. (@380 Va.c.) 79,8 Aa.c. (@400 Va.c.) 66,5 Aa.c. (@480 Va.c.)	84,0 Aa.c. (@380 Va.c.) 79,8 Aa.c. (@400 Va.c.) 66,5 Aa.c. (@480 Va.c.)
Output voltage frequency	50 Hz/60 Hz	50 Hz
Power factor	0,8 leading–0,8 lagging	0,8 leading–0,8 lagging
General		
Dimensions (W x H x D)	640 mm x 530 mm x 270 mm	640 mm x 530 mm x 270 mm
Net weight	48 kg	48 kg
Operating temperature	-25°C to +60°C (derated when the temperature is above +45°C)	-25°C to +60°C (derated when the temperature is above +45°C)
Highest operating altitude	4000 m	4000 m
IP rating	IP66	IP66

Page 5 of 5

This CB Test Certificate is issued by the National Certification Body

CBS 041829 4971 Rev. 00

Date, 2023-03-21



(Billy Qiu)

TÜV SÜD PSB Pte Ltd 15 International Business Park TÜV SÜD @ IBP Singapore 609937



PSB Singapore