

Declaration of conformity

to the requirements of the Standard CEI 0-21

CERTIFICATION Bureau Veritas Consumer Products Services Germany GmbH

ORGANIZATION: Accreditation DAkkS, D-ZE-12024-01-00, Rif. DIN EN ISO/IEC 17065

Data validity: 15-October-2020

STANDARD / GUIDE: CEI 0-21: 2012-06

CEI 0-21; V1: 2012-12 Edition December 2012 CEI 0-21; V2: 2013-12 Edition December 2013

CEI 0-21: 2014-09

CEI 0-21; V1: 2014-12 Edition December 2014

CEI 0-21: 2016-07

CEI 0-21; V1: 2017-07 Edition July 2017

Technical reference rule for the connection of active and passive users to the LV electricity

distribution networks of companies

TYPE OF SYSTEM DECLEARED:

INTERFACE	PROTECTION	STATIC	ROTATING GENERATION
DEVICE	INTERFACE	ELECTRONIC INVERTER	MACHINE
X	X	X	

MANUFACTURER: Huawei Technologies Co., Ltd.

Administration Building, Headquarters of Huawei Technologies Co., Ltd.

Bantian, Longgang District, Shenzhen, 518129

PRODUCT TYPE:	SOLAR INVERTER							
MODEL:	SUN2000- 3KTL-M0	SUN2000- 4KTL-M0	SUN2000- 5KTL-M0	SUN2000- 6KTL-M0	SUN2000- 8KTL-M0	SUN2000- 10KTL-M0		
NOMINAL POWER:	3,0kW	4,0kW	5,0kW	6,0kW	8,0kW	10,0kW		

V100R001 FIRMWARE VERSION: **PHASE NUMBER:** three-phase

NOTF:

The device is able to limit the ldc to 0.5% of the nominal current.

The device is for plants of each power.

The inverters of Huawei Technologies Co., Ltd. have a maximum apparent power limit. In the case where a system should be able to reach in every working condition a determined power factor, it is necessary to set the maximum active power in such a way, that you can reach at any time the cos-phi wanted.

LABORATORY THAT HAS DONE THE TESTING:

Bureau Veritas Consumer Products Services Germany GmbH

Accreditation DAkkS, D-PL-12024-03-03, Rif. DIN EN ISO/IEC 17025

Valid Laboratory Accreditation Data: 11-JUNE-2019

After reviewing the ISO 9001 Manufacturer's No. FM669363, issued by BSI, ISO 9001 Manufacturer's No. 064-17-Q-1267-R1-M, issued by Beijing Standard Certification Centre, reviewing the test-reports with No. 18TH0255-CEI 0-21_0, issued by the laboratory Bureau Veritas Consumer Products Services Germany GmbH and reviewing the manufacturer's CE declaration of conformity with the relevant test report, No. DM181110030 issued by the laboratory STC with recognized accreditation by DAkkS (No. D-PL12121-01-00). The indicated product is declared to comply with the provisions of CEI 0-21: 2012-06, CEI 0-21; V1: 2012-12, CEI 0-21; V2: 2013-12, CEI 0-21: 2014-09, CEI 0-21; V1: 2014-12, CEI 0-21: 2016-07, CEI 0-21; V1: 2017-07.

U18-0646 Certificate number:

2018-11-30 € R U N G Data of issue:

Certification body

Holger Schaffer

Certification body Bureau Veritas Consumer Products Services Germany GmbH Accreditation to DIN EN ISO/IEC 17065



Table Interface Protection System (SPI) Extract of the test report No. 18TH0255-CEI 0-21 0 Interface Protection System (SPI) Manufacturer: Huawei Technologies Co., Ltd. Administration Building, Headquarters of Huawei Technologies Co., Ltd. Bantian, Longgang District, Shenzhen, 518129 P.R.C Model: SUN2000-SUN2000-SUN2000-SUN2000-SUN2000-SUN2000-3KTL-M0 4KTL-M0 5KTL-M0 6KTL-M0 8KTL-M0 10KTL-M0 **Nominal Power:** 3,0kW 4,0kW 5,0kW 6,0kW 8,0kW 10,0kW Firmware version: V100R001 Number of phases (single-phase/threethree-phase phase): Intervention thresholds Time of intervention Reset Ratio Time of relapse Temperature -25 °C Detected Requested Detected Requested Detected Requested Detected Requested [V] $[V] \pm 1\%$ [ms] [ms] [ms] [ms] between 1,03 between 40 195,7 N/A Min 195,5 412 $400 \pm 20 \text{ ms}$ N/A and 1,05 and 100 Voltage Threshold between 0,95 between 40 N/A N/A Max 265,2 264,5 210 $200 \pm 20 \text{ ms}$ and 0,97 and 100 Temperature Intervention thresholds Time of intervention Reset Ratio Time of relapse Ambient Detected Requested Detected Requested Detected Requested Detected Requested [V] ± 1% [V] [ms] [ms] [ms] [ms] between 1,03 between 40 Min 195,6 195,5 406 $400 \pm 20 \text{ ms}$ N/A N/A and 1,05 and 100 Voltage Threshold between 0,95 between 40 265,0 N/A N/A Max 264,5 210 $200 \pm 20 \text{ ms}$ and 0,97 and 100 Temperature Intervention thresholds Time of intervention Reset Ratio Time of relapse +60 °C Detected Requested Detected Requested Detected Requested Detected Requested [ms] [V] [V] ± 1% [ms] [ms] [ms] between 1.03 between 40 Min 195,7 195,5 412 $400 \pm 20 \text{ ms}$ N/A N/A and 1,05 and 100 Voltage Threshold between 0,95 between 40 265,2 264,5 212 $200 \pm 20 \text{ ms}$ N/A N/A Max and 0,97 and 100

Note:

- ≤ 1 % for the voltage thresholds
- ≤ 3 % ± 20 ms for the times of intervention variation of the error during the repetition of the tests
- ≤ 2 % for the tensions
- ≤ 1 % ± 20 ms for the times of intervention



Allegato Dichiarazione di conformità alle prescrizioni alla Norma CEI 0-21 No. U18-0646

Table Interfac	ce Protec	ction Syster	n (SPI)						
Extract of the test report No. 18TH0255-CEI 0-21_0									
Frequency 49	9,5Hz	50,5Hz							
Tempera	ture	Interventio	n thresholds	Time of	intervention	R	leset Ratio	Time	of relapse
-25 °C		Detected	Requested	Detected	Requested	Detected	Requested	Detected	Requested
		[Hz]	[Hz] ± 20 mHz	[ms]	[ms]	Dottodiod	rtoquoticu	[ms]	[ms]
Frequency	Min	49,50	49,5	106	100 ± 20 ms	N/A	between 1,001 and 1,003	N/A	between 40 and 100
Threshold Max	50,50	50,5	116	100 ± 20 ms	N/A	between 0,997 and 0,999	N/A	between 40 and 100	
Temperature I		Intervention thresholds		Time of intervention		Reset Ratio		Time of relapse	
•	Ambient		Requested	Detected	Requested	Detected	Requested	Detected	Requested
		Detected [Hz]	[Hz] ± 20 mHz	[ms]	[ms]	[Hz]	[Hz] ± 20 mHz	[ms]	[ms]
Frequency	Min	49,50	49,5	107	100 ± 20 ms	N/A	between 1,001 and 1,003	N/A	between 40 and 100
Threshold	Max	50,50	50,5	115	100 ± 20 ms	N/A	between 0,997 and 0,999	N/A	between 40 and 100
Tempera	ture	Intervention	n thresholds	Time of intervention		R	teset Ratio	Time of relapse	
+60 °C		Detected	Requested	Detected	Requested	Detected	Requested	Detected	Requested
		[Hz]	[Hz] ± 20 mHz	[ms]	[ms]	[Hz]	[Hz] ± 20 mHz	[ms]	[ms]
Frequency	Min	49,50	49,5	107	100 ± 20 ms	N/A	between 1,001 and 1,003	N/A	between 40 and 100
Threshold	Max	50,50	50,5	116	100 ± 20 ms	N/A	between 0,997 and 0,999	N/A	between 40 and 100
Frequency 47	7,5Hz	51,5Hz							
Tempera	Temperature International		n thresholds	Time of	intervention	R	leset Ratio	Time	of relapse
-25 °C		Detected	Requested	Detected	Requested	Detected	Requested	Detected	Requested
		[Hz]	[Hz] ± 20 mHz	[ms]	[ms]	[Hz]	[Hz] ± 20 mHz	[ms]	[ms]
Frequency	Min	47,50	47,5	112	100 ± 20 ms	N/A	between 1,001 and 1,003	N/A	between 40 and 100
Threshold	Max	51,50	51,5	116	100 ± 20 ms	N/A	between 0,997 and 0,999	N/A	between 40 and 100
Tempera	Temperature Interv		thresholds Time of intervention		Reset Ratio		Time of relapse		
Ambiei	nt	Detected	Requested	Detected	Requested	Detected	Requested	Detected	Requested
		[Hz]	[Hz] ± 20 mHz	[ms]	[ms]	[Hz]	[Hz] ± 20 mHz	[ms]	[ms]
Frequency	Min	47,50	47,5	110	100 ± 20 ms	N/A	between 1,001 and 1,003	N/A	between 40 and 100
Threshold	Max	51,50	51,5	112	100 ± 20 ms	N/A	between 0,997 and 0,999	N/A	between 40 and 100
Tempera	Temperature Ir		Intervention thresholds Time of intervention		intervention	Reset Ratio		Time of relapse	
÷60 °C		Detected [Hz]	Requested [Hz] ± 20 mHz	Detected [ms]	Requested [ms]	Detected [Hz]	Requested [Hz] ± 20 mHz	Detected [ms]	Requested [ms]
Frequency	Min	47,50	47,5	111	100 ± 20 ms	N/A	between 1,001 and 1,003	N/A	between 40 and 100
Threshold	Max	51,50	51,5	117	100 ± 20 ms	N/A	between 0,997 and 0,999	N/A	between 40 and 100

Nota:

 \pm 20 mHz for the frequency thresholds

 \leq 3 % ± 20 ms for the times of intervention

variation of the error during the repetition of the tests

- \leq 1 % ± 20 ms for the times of intervention