

Declaration of conformity

to the requirements of the Standard CEI 0-21

CERTIFICATION
ORGANIZATION:

Bureau Veritas Consumer Products Services Germany GmbH 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
Х	X	X	

MANUFACTURER:

Huawei Technologies Co., Ltd.

Administration Building, Headquarters of Huawei Technologies Co., Ltd. Bantian, Longgang District, Shenzhen, 518129

PRC

PRODUCT TYPE:	SOLAR INVER	RTER				
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
FIRMWARE VERSION:	V100R001					
PHASE NUMBER:	three-phase					

NOTE

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.

Certificate number:

Data of issue:

U18-0646

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2018-11-30 E R U N G

Certification body

Holger Schaffer

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

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BUREAU VERITAS											
Table Interfac	ce Protec	ction Syste	m (SPI)								
Extract of the	e test rep	ort						No. 18TH02	55-CEI 0-21_0		
Interface	Prot	ection S	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- 3KTL-M0	SUN2000- 4KTL-M0	SUN2000- 5KTL-M0 6KTL-M0		SUN2000- 8KTL-M0	SUN2000- 10KTL-M0		
Nominal Power:				3,0kW	4,0kW	5,0kW	6,0kW	8,0kW	10,0kW		
Firmware version:				V100R001							
Number of phases (single-phase/three- phase):			/three-	three-phase							
Tempera		Intervention threshold		Is Time of intervention		Reset Ratio		Time of relapse			
-25 °C		Detected [V]	Requested [V] ± 1%	Detected [ms]	Requested [ms]	Detected	Requested	Detected [ms]	Requested [ms]		
Voltage	Min	195,7	195,5	412	400 ± 20 ms	N/A	between 1,03 and 1,05	N/A	between 40 and 100		
Threshold	Max	265,2	264,5	210	200 ± 20 ms	N/A	between 0,95 and 0,97	N/A	between 40 and 100		
Temperature Ambient		Interventio	n thresholds	Time of	intervention	Reset Ratio		Time of relapse			
		Detected [V]	Requested [V] ± 1%	Detected [ms]	Requested [ms]	Detected	Requested	Detected [ms]	Requested [ms]		
Voltage	Min	195,6	195,5	406	400 ± 20 ms	N/A	between 1,03 and 1,05	N/A	between 40 and 100		
Threshold	Max	265,0	264,5	210	200 ± 20 ms	N/A	between 0,95 and 0,97	N/A	between 40 and 100		
		Intervention thresholds		s Time of intervention		Reset Ratio		Time of relapse			
		DetectedRequested[V][V] ± 1%		Detected [ms]	Requested [ms]	Detected	Requested	Detected [ms]	Requested [ms]		
Voltage	Min	195,7	195,5	412	400 ± 20 ms	N/A	between 1,03 and 1,05	N/A	between 40 and 100		
Threshold	Max	265,2	264,5	212	200 ± 20 ms	N/A	between 0,95 and 0,97	N/A	between 40 and 100		

Note:

 \leq 1 % for the voltage thresholds \leq 3 % ± 20 ms for the times of intervention

variation of the error during the repetition of the tests

 \leq 2 % for the tensions

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



No. 18TH0255-CEI 0-21_0

Table Interface Protection System (SPI)

Extract of the test report

Frequency 49,5Hz ... 50,5Hz

Temperature		Interventio	n thresholds	Time of intervention		R	eset Ratio	Time of relapse	
-25 °C	;	Detected [Hz]	Requested [Hz] ± 20 mHz	Detected [ms]	Requested [ms]	Detected	Requested	Detected [ms]	Requested [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
	Max	50,50	50,5	116	100 ± 20 ms	N/A	between 0,997 and 0,999	N/A	between 40 and 100
Temperature Ambient		Intervention thresholds		Time of intervention		Reset Ratio		Time of relapse	
		Detected [Hz]	Requested [Hz] ± 20 mHz	Detected [ms]	Requested [ms]	Detected [Hz]	Requested [Hz] ± 20 mHz	Detected [ms]	Requested [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 thresholds		Time of intervention		R	eset 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 Threshold	Min	49,50	49,5	107	100 ± 20 ms	N/A	between 1,001 and 1,003	N/A	between 40 and 100
	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	,5Hz	51,5Hz							
Temperature -25 °C		Intervention thresholds		Time of intervention		Reset Ratio		Time of relapse	
		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	112	100 ± 20 ms	N/A	between 1,001 and 1,003	N/A	between 40 and 100
	Max	51,50	51,5	116	100 ± 20 ms	N/A	between 0,997 and 0,999	N/A	between 40 and 100
Tempera	ture	Intervention thresholds		Time of intervention		Reset Ratio		Time of relapse	
Ambient		Detected [Hz]	Requested [Hz] ± 20 mHz	Detected [ms]	Requested [ms]	Detected [Hz]	Requested [Hz] ± 20 mHz	Detected [ms]	Requested [ms]
Frequency Threshold	Min	47,50	47,5	110	100 ± 20 ms	N/A	between 1,001 and 1,003	N/A	between 40 and 100
	Max	51,50	51,5	112	100 ± 20 ms	N/A	between 0,997 and 0,999	N/A	between 40 and 100
Temperature +60 °C		Intervention thresholds		Time of intervention		Reset Ratio		Time of relapse	
		Detected [Hz]	Requested [Hz] ± 20 mHz	Detected [ms]	Requested [ms]	Detected [Hz]	Requested [Hz] ± 20 mHz	Detected [ms]	Requested [ms]
Frequency Threshold	Min	47,50	47,5	111	100 ± 20 ms	N/A	between 1,001 and 1,003	N/A	between 40 and 100
	Max	51,50	51,5	117	100 ± 20 ms	N/A	between 0,997 and 0,999	N/A	between 40 and 100

± 20 mHz for the frequency thresholds

 $\leq 3 \% \pm 20$ ms for the times of intervention

variation of the error during the repetition of the tests

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