

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 DEVICE	PROTECTION	STATIC ELECTRONIC INVERTER	ROTATING GENERATION MACHINE
X	X	X	
MANUFACTURER:	Huawei Technologies Co., Lt	d.	

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

Bantian, Longgang District, Shenzhen, 518129,

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PRODUCT TYPE:	Photovoltaic I	nverter							
MODEL:	SUN2000- 8KTL-M0	SUN2000- 10KTL-M0	SUN2000- 12KTL-M0	SUN2000- 15KTL-M0	SUN2000- 17KTL-M0	SUN2000- 20KTL-M0			
NOMINAL POWER:	8 kW	10 kW	12 kW	15 kW	17 kW	20 kW			

FIRMWARE VERSION:

PHASE NUMBER:

V100R001 and above 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 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

After reviewing the ISO 9001 Manufacturer's No. FM 669363, issued by bsi, the ISO 9001 Manufacturer's No. 064-17-Q-1267-R1-M, issued by Beijing Standard Certification Centre, reviewing the test-reports with No. 19TH0316-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. SYBH(E)05083256EA issued by the laboratory of Huawei Technologies with recognized accreditation by a CNAS (No. L0310). 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:

U19-0343

Data of issue:

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Certification body

Holger Schaffer

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

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Extract of the	e test rep	ort							Ν	lo. 19TH03 ⁻	16-CEI 0-21_0
Interface	Prot	ection S	System	(SPI)							
Manufacture	:		Huawei Tecl Administratio Bantian, Lor P.R.C	on Building,	Headqu			Technologies	Co., I	Ltd.,	
Model:			SUN2000- 8KTL-M0	SUN2			2000- ГL-M0	SUN2000- 15KTL-M0		JN2000- KTL-M0	SUN2000- 20KTL-M0
Nominal Pow	er:		8 kW	101			kW	15 kW		17 kW	20 kW
Firmware ver	sion:		V100R001	1					1		
Number of phases (single-phase/three-phase):			Three-phase								
-25 °C Detected		Interventio	n thresholds	s Time of intervention		ntion	R	leset Ratio		Time of relapse	
		Detected [V]	Requested [V] ± 1%	Detected [ms]	Reque [m		Detected	Requeste	ed	Detected [ms]	Requested [ms]
Voltage	Min	196,9	195,5	413	400 ± 2	20 ms	N/A		1,03 ≤ r ≤ 1,05		40 ≤tr ≤ 100
Threshold	Max	263,7	264,5	219	219 200 ± 20 ms		N/A	0,95 ≥ r ≥ 0),97	N/A	40 ≤tr ≤ 100
Tempera	ture	Interventio	thresholds Time c		f intervention		R	eset Ratio		Time	of relapse
Ambient		Detected [V]	Requested [V] ± 1%	Detected [ms]	Reque [m		Detected	Requeste	ed	Detected [ms]	Requested [ms]
Voltage	Min	196,8	195,5	416	400 ± 2	20 ms	N/A	1,03 ≤ r ≤ 1	,05	N/A	40 ≤tr ≤ 100
Threshold	Max	263,2	264,5	212	200 ± 2	20 ms	N/A	0,95 ≥ r ≥ 0),97	N/A	40 ≤tr ≤ 100
Temperature Intervention +60 °C Detected [V]		Interventio	n thresholds	thresholds Time of intervention		Reset Ratio		Time of relapse			
			Requested [V] ± 1%	Detected [ms]			Detected	Requested		Detected [ms]	Requested [ms]
Voltage	Min	196,9	195,5	416	400 ± 2	20 ms	N/A	1,03 ≤ r ≤ 1		N/A	40 ≤tr ≤ 100
Threshold	Max	263,8	264,5	216	200 ± 2	20 ms	N/A	0,95 ≥ r ≥ 0),97	N/A	40 ≤tr ≤ 100

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. 19TH0316-CEI 0-21_0

Table Interface Protection System (SPI)

Extract of the test report

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

—	9,5Hz 4	1			• .				
Tempera			n thresholds		intervention		leset Ratio		of relapse
-25 °C		Detected [Hz]	Requested [Hz] ± 20 mHz	Detected [ms]	Requested [ms]	Detected	Requested	Detected [ms]	Requested ms]
Frequency	Min	49,48	49,5	119	100 ± 20 ms	N/A	1,001 ≤ r ≤ 1,003	N/A	40 ≤tr ≤ 10
Threshold	Max	50,49	50,5	116	100 ± 20 ms	N/A	0,997 ≥ r ≥ 0,999	N/A	40 ≤tr ≤ 10
Tempera	ture	Interventio	n thresholds	Time of	intervention	R	eset Ratio	Time	of relapse
Ambient		Detected [Hz]	Requested [Hz] ± 20 mHz			Detected Requested [Hz] [Hz] ± 20 mHz		Detected [ms]	Requested [ms]
Frequency	Min	49,49	49,5	119	100 ± 20 ms	N/A	1,001 ≤ r ≤ 1,003	N/A	40 ≤tr ≤ 10
Threshold	Max	50,50	50,5	119	100 ± 20 ms	N/A	0,997 ≥ r ≥ 0,999	N/A	40 ≤tr ≤ 100
Tempera	ture	Interventio	n 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]	Requestec [ms]
Frequency	Min	49,49	49,5	116	100 ± 20 ms	N/A	1,001 ≤ r ≤ 1,003	N/A	40 ≤tr ≤ 100
Threshold	Max	50,51	50,5	118	100 ± 20 ms	N/A	0,997 ≥ r ≥ 0,999	N/A	40 ≤tr ≤ 100
Frequency 47		- T		(·:			 ·	<u> </u>
Tempera -25 °C		-	Intervention thresholds		Time of intervention		Reset Ratio		of relapse
-25 C	,	Detected [Hz]	Requested [Hz] ± 20 mHz	Detected [ms]	Requested [ms]	Detected [Hz]	Requested [Hz] ± 20 mHz	Detected [ms]	Requested [ms]
Frequency	Min	47,49	47,5	99	100 ± 20 ms	N/A	1,001 ≤ r ≤ 1,003	N/A	40 ≤tr ≤ 10
Threshold	Max	51,49	51,5	120	100 ± 20 ms	N/A	0,997 ≥ r ≥ 0,999	N/A	40 ≤tr ≤ 10
Tempera	ture	Interventio	n thresholds	Time of	intervention	R	eset Ratio	Time	of relapse
Ambiei		Detected [Hz]	Requested [Hz] ± 20 mHz	Detected [ms]	Requested [ms]	Detected [Hz]	Requested [Hz] ± 20 mHz	Detected [ms]	Requestec [ms]
Frequency	Min	47,49	47,5	120	100 ± 20 ms	N/A	1,001 ≤ r ≤ 1,003	N/A	40 ≤tr ≤ 10
Threshold	Max	51,50	51,5	119	100 ± 20 ms	N/A	0,997 ≥ r ≥ 0,999	N/A	40 ≤tr ≤ 10
Tempera	ture	Interventio	n thresholds	Time of	intervention	R	eset Ratio	Time	of relapse
+60 °C					Requested [ms]	Detected [Hz]		Detected [ms]	-
					400 00	N/A	1,001 ≤ r ≤ 1,003	N/A	40 ≤tr ≤ 10
Frequency	Min	47,49	47,5	117	100 ± 20 ms	IN/A	1,001 - 1 - 1,005		40 30 3 10

 \leq 3 % ± 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