

TYPE TEST APPROVAL

No:230515-TTA

Licence Holder/ Applicant	Huawei Technologies Colombia S.A.S. Cra 68ª No. 24B-10. Plaza Claro, Tower 2, 10th floor. Bogotá, Colombia.
Product	Inversor Solar Trifásico
Trademark/ Series/ Model	Tested model: - Huawei / SUN2000 / SUN2000-185KTL-H1 Variant models (*): - Huawei / SUN2000 / SUN2000-105KTL-H1 - Huawei / SUN2000 / SUN2000-215KTL-H0 - Huawei / SUN2000 / SUN2000-215KTL-H3 - Huawei / SUN2000 / SUN2000-330KTL-H1
Serial Number	6T1979046065 Y
Firmware Version	Tested firmware version: - V300R001 Variant firmware version (*): - V100R023 (for Huawei SUN2000-330KTL-H1 model)
Standard	Comisión de Regulación de Energía y Gas: Resolución No. 060 de 2019. Por la cual se hacen modificaciones y adiciones transitorias al Reglamento de Operación para permitir la conexión y operación de plantas solares fotovoltaicas y eólicas en el SIN y se dictan otras disposiciones. Article 14. Clause 5.7 c) and d). Comisión de Regulación de Energía y Gas: Resolución No. 148 de 2021. Por la cual se adiciona un Capítulo Transitorio al Anexo General del Reglamento de Distribución contenido en la Resolución CREG 070 de 1998, para permitir la conexión y operación de plantas solares fotovoltaicas y eólicas en el SDL con capacidad efectiva neta o potencia máxima declarada igual o mayor a 5 MW y se dictan otras disposiciones. Clause: 11.2.4. Comisión de Regulación de Energía y Gas No. 101 011 de 2022. Por la cual se adiciona un Capítulo Transitorio al Anexo General del Reglamento de Distribución contenido en la Resolución CREG 070 de 1998, para permitir la conexión y operación de plantas solares fotovoltaicas y eólicas en el SDL con capacidad efectiva neta o potencia máxima declarada igual o mayor a 1 MW y menor a 5 MW, y se dictan otras disposiciones. Clause: 12.2.3.



The above-mentioned generating unit complies the requirements of “**Comisión de Regulación de Energía y Gas: Resolución No. 060 de 2019**. Por la cual se hacen modificaciones y adiciones transitorias al Reglamento de Operación para permitir la conexión y operación de plantas solares fotovoltaicas y eólicas en el SIN y se dictan otras disposiciones. Article 14. Clause 5.7 c) and d), **Comisión de Regulación de Energía y Gas: Resolución No. 148 de 2021**. Por la cual se adiciona un Capítulo Transitorio al Anexo General del Reglamento de Distribución contenido en la Resolución CREG 070 de 1998, para permitir la conexión y operación de plantas solares fotovoltaicas y eólicas en el SDL con capacidad efectiva neta o potencia máxima declarada igual o mayor a 5 MW y se dictan otras disposiciones. Clause: 11.2.4. and **Comisión de Regulación de Energía y Gas No. 101 011 de 2022**. Por la cual se adiciona un Capítulo Transitorio al Anexo General del Reglamento de Distribución contenido en la Resolución CREG 070 de 1998, para permitir la conexión y operación de plantas solares fotovoltaicas y eólicas en el SDL con capacidad efectiva neta o potencia máxima declarada igual o mayor a 1 MW y menor a 5 MW, y se dictan otras disposiciones. Clause: 12.2.3”

Having assessed the test results in the test report N° 20994-1-TR and N° 20994-2-TR performed by CERE, issued on 23/03/2022.

() CERE as a testing laboratory has not evaluated and is not responsible of the variant models and variant firmware version above mentioned. They have been indicated by the manufacturer.*

This TTA cancels and supersedes the TTAs number: 20994-1-TTA and 20994-2-TTA-E1 issued on 23/03/2022 and 01/09/2022.

Place, Date: Madrid, 11/07/2023

A handwritten signature in blue ink, consisting of a series of loops and a long horizontal stroke extending to the right.

Alberto Martín
(Technical Director)



Technical data

	185KTL-H1	105KTL-H1	215KTL-H0	215KTL-H3	330KTL-H1
DC input					
Máx. Tensión (V)	1500				
Máx. Corriente por MPPT (A)	26	25	30	100	65
Máx. Corriente de Cortocircuito por MPPT (A)	40	33	50	-	115
Rango de Tensión MPPT (V)	500-1500	600-1500	500-1500	500-1500	500-1500
Tensión de Entrada Nominal (V)	1080				
Número de Entradas	18	12	18	14	28
Número de Seguidores MPPT	9	6	9	3	6
AC output					
Potencia Activa Nominal (kW)	175	105	200	200	300
Máx. Potencia Aparente (kVA)	185	116	215	215	330
Máx. Potencia Activa (kW)	185	116	215	215	330
Tensión Nominal (V)	800				
Frecuencia de Red Nominal (Hz)	50 / 60				
Corriente Nominal (Arms)	126,3	75,8	144,4	144,4	216,6
Rango de Ajuste de Factor de Potencia	0,8 LG...0,8 LD				
Máx. THD	< 3%	< 3%	< 3%	< 1%	< 1%
Rango de Ajuste del Factor k en FRT	$0 \leq k \leq 10$				

Verification of the test report

Verification	Notes	Results
Priorización de la inyección de corriente reactiva de forma que alcanza un 90% del delta de cambio esperado en menos de 50 ms, con una tolerancia del 20%, ante desviaciones de tensión que excedan los límites operativos de la tensión nominal en la planta de generación. Los 50 ms consideran el tiempo necesario para detectar la falla.	See the following test reports: 20994-1-TR & 20994-2-TR	Pass
Limitación del aporte de potencia reactiva adicional al 100% de la corriente nominal de cada generador	See the following test reports: 20994-1-TR & 20994-2-TR	Pass
Sostenimiento del aporte de potencia reactiva adicional siempre que la tensión esté por fuera del rango normal de operación.	See the following test reports: 20994-1-TR & 20994-2-TR	Pass
Sostenimiento de la potencia reactiva durante 500 ms después de la tensión entre a la banda muerta de tensión manteniendo un aporte adicional proporcional a la desviación de la tensión con respecto al valor de referencia (1 p.u).	See the following test reports: 20994-1-TR & 20994-2-TR	Pass
Si la ganancia k es configurable en cada inversor y en qué rango. Debe demostrarse que al menos es configurable entre 0 y 10.	See manufacturer declaration. Datasheet above (configurable between 0 - 10)	Pass
El ajuste de la banda muerta.	See the following test reports: 20994-1-TR & 20994-2-TR	Pass

RECORD OF CHANGES

Version	Reason of the modifications	Modifications	Date
0	Initial Version	-	11/07/2023

Test Report N° 20994-1-TR	
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TESTING LABORATORY

Name : Certification Entity for Renewable Energies, S.L.
(CERE Testing Laboratory)
Address : C/ Monturiol 15. 28906. Getafe - Madrid - España.
Conducted (tested) by : Otto Intriago
Test Date : 28/04/2021; 12/11/2021
Issue Date : 23/03/2022

SITE TEST

Name : Certification Entity for Renewable Energies, S.L.
Address : C/ Monturiol 15. 28906. Getafe - Madrid - España.

LICENCE HOLDER

Name : Huawei Technologies Colombia S.A.S.
Address : Cra 68ª No. 24B-10. Plaza Claro, Tower 2, 10th floor.

APPLICANT

Name : Huawei Technologies Colombia S.A.S.
Address : Cra 68ª No. 24B-10. Plaza Claro, Tower 2, 10th floor.

APPLIED SPECIFICATIONS

This protocol is based on the standard : **Comisión de Regulación de Energía y Gas: Resolución No. 148 de 2021.** Por la cual se adiciona un Capítulo Transitorio al Anexo General del Reglamento de Distribución contenido en la Resolución CREG 070 de 1998, para permitir la conexión y operación de plantas solares fotovoltaicas y eólicas en el SDL con capacidad efectiva neta o potencia máxima declarada igual o mayor a 5 MW y se dictan otras disposiciones.

- Clause: 11.2.4

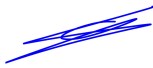
SAMPLES CHARACTERISTICS

Apparatus type/ Installation : Three-Phase Solar Inverter

Manufacturer/ Supplier/ Installer : Huawei

Trademark : 
Models : SUN2000-185KTL-H1
Serial Number : 6T1979046065 Y
Firmware version : V300R001

Rated Characteristics : Pn: 175,00 kW, Pmax: 185,00 kW, 800VAC, 60Hz & 126,30A
See point 2 of this test report, "General Information"

Performed by: 	Approved by: 
Otto Intriago (Testing Engineer)	Alberto Martín (Technical Manager)

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1. SCOPE

Certification Entity for Renewable Energies, S.L. (CERE Testing Laboratory) has been contracted by **Huawei Technologies Colombia S.A.S.** in order to perform the testing according to the network connection standards specified in page 1 "Applied specifications".

2. GENERAL INFORMATION

2.1. Tested item: Particular characteristics.

Input	500 – 1500 Vdc, max 1500Vdc
Output	800 Vac,
Class of protection against electric shock	Class I
Degree of protection against moisture	IP66
Type of connection to the main supply	3W + PE
Cooling group	Smart Air Cooling
Modular	No
Internal Transformer	No
Climatic Condition	-25 °C~ 60 °C

2.2. Rating plate:



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2.3. Summary of inspection and test results:

All the tests and checks have been performed in accordance with the reference Standard as specified previously.

The results obtained apply only to the particular sample tested that is the subject of the present test report. The most unfavourable result values of the verifications and tests performed are contained herein.

Throughout this report a comma is used as the decimal separator.

Version	Modifications
0	Initial report

The present test report cannot be copied partially without the express written consent of the Testing Laboratory.

Two setups were used to perform the tests:

- Setup 1 was used to perform LVRT (28/04/2021)
- Setup 2 was used to perform HVRT (12/11/2021)

NOTE: Accredited activities can be found into the accreditation scope.

WEATHER CONDITIONS

Temperature: 23,00 - 24,60 °C

Humidity: 25,40 – 35,20 %HR

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3. TEST EQUIPMENT LIST / MEASUREMENT UNCERTAINTY & TEST SETUP

3.1. Test Equipment List:

CERE'S EQUIPMENT LIST

Set up 1

No.	TEST EQUIPMENT	MANUFACTURER / MODEL	CODE N°	CALIBRATION DATE	
				LAST	DUE
1	Power Analyzer	ZES ZIMMER / LMG500	CERE_001	13/05/2020	13/05/2022
2	AC Current Sensor	ZES ZIMMER / L45-Z10	CERE_002 CERE_003 CERE_004	13/05/2020	13/05/2022
3	Multimeter	FLUKE / 179	CERE_008	26/10/2020	26/10/2021
4	Weather station	VELLEMAN / WS8472	CERE_012	22/10/2020	22/10/2021

Set up 2

No.	TEST EQUIPMENT	MANUFACTURER / MODEL	CODE N°	CALIBRATION DATE	
				LAST	DUE
1	Power Analyzer	Dewesoft / SIRIUS	CERE_180	18/05/2021	18/05/2023
2	AC Current Sensor	LEM / IT 700-S	CERE_212 CERE_213 CERE_214	13/05/2020	13/05/2022
3	Multimeter	FLUKE / 179	CERE_008	02/11/2021	02/11/2022
4	Weather station	VELLEMAN / WS8472	CERE_012	22/10/2021	22/10/2022

3.2. Measurement Uncertainties:

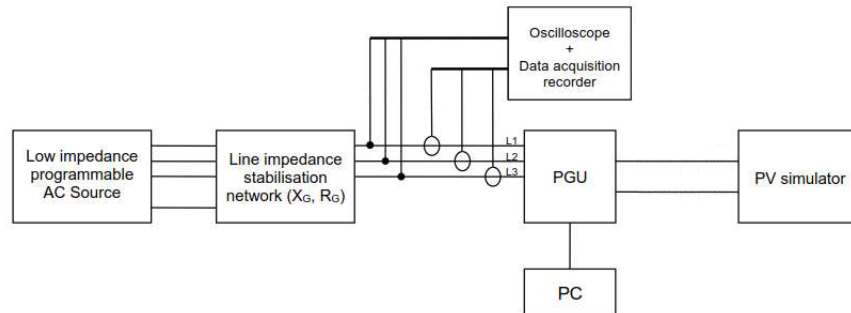
Setup 1

Voltage measurement uncertainty	±0,46 %
Current measurement uncertainty	±0,78 %
Power measurement uncertainty	±0,38 %
Frequency measurement uncertainty	±0,12 %

Setup 2

Voltage measurement uncertainty	±0,26 %
Current measurement uncertainty	±0,29 %
Power measurement uncertainty	±0,26 %
Frequency measurement uncertainty	±0,12 %

3.3. Test set up:



Current sensors and voltage probes have been connected to the output and/or input of equipment under test (EUT) according to each test requirement.

All the tests described in the following pages have been performed using this specified test setup.

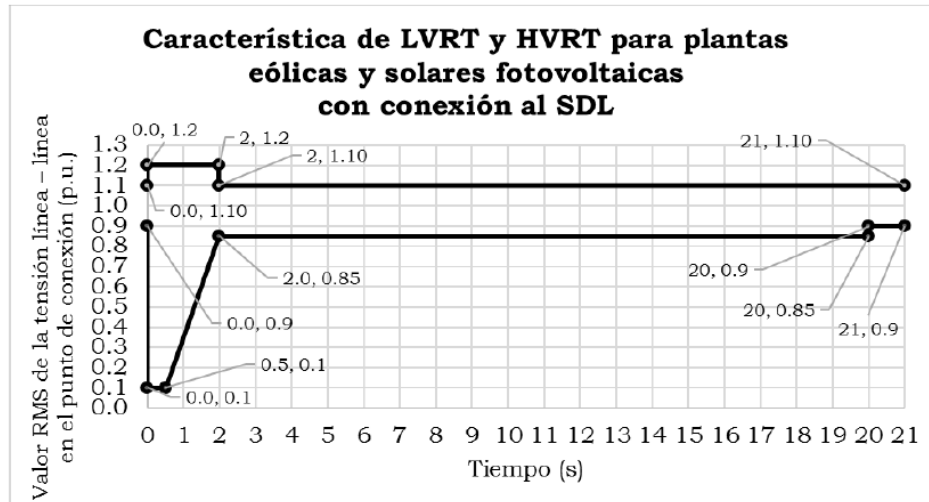
4. RESUME OF TEST RESULTS

4.1. Chapter of the Standard

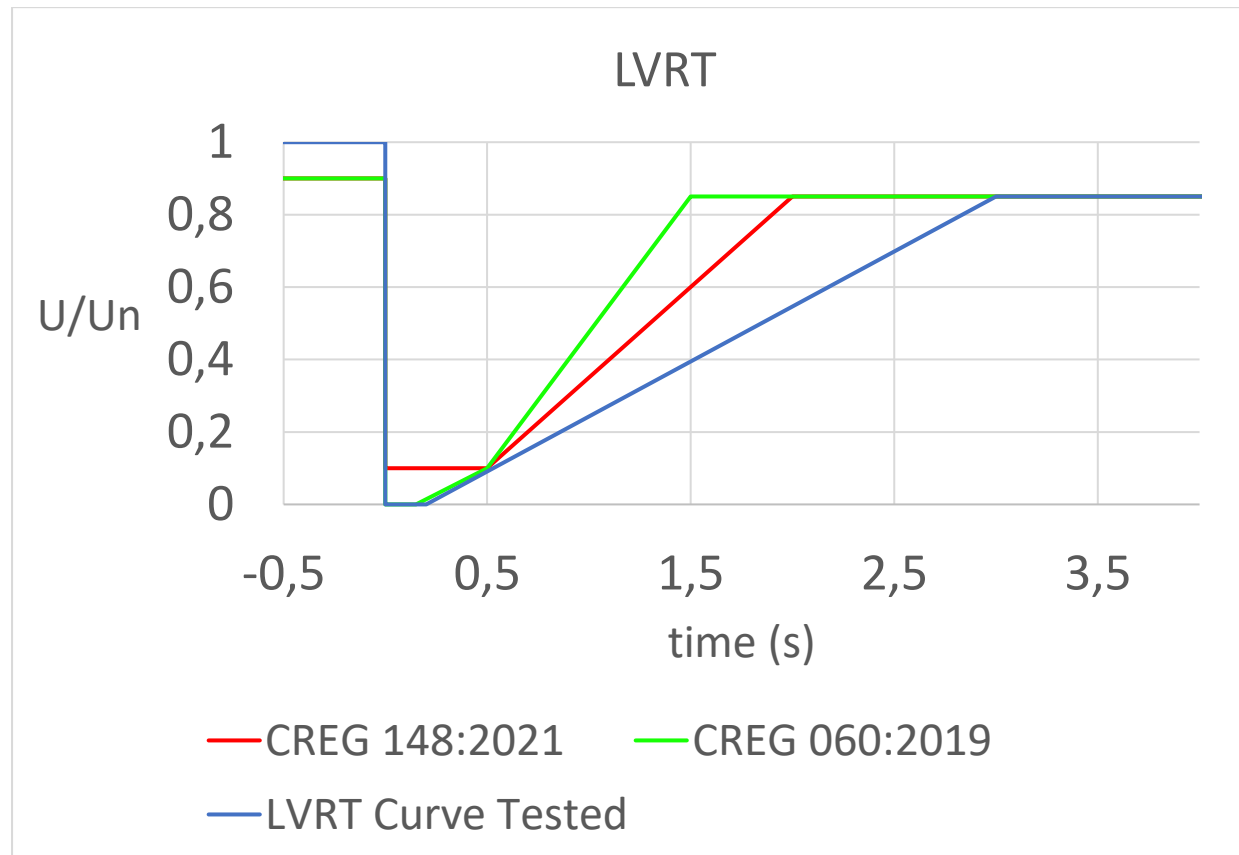
Test N°	Test Description:	Standard Reference
5.1	LVRT & HVRT	11.2.4 (Características de depresiones de tensión y sobretensiones)

5. TEST RESULTS

5.1. LVRT & HVRT



Note: LVRT tests performed to match with CREG 148:2021 and CREG 060:2019 requirements, as shown in the picture below.



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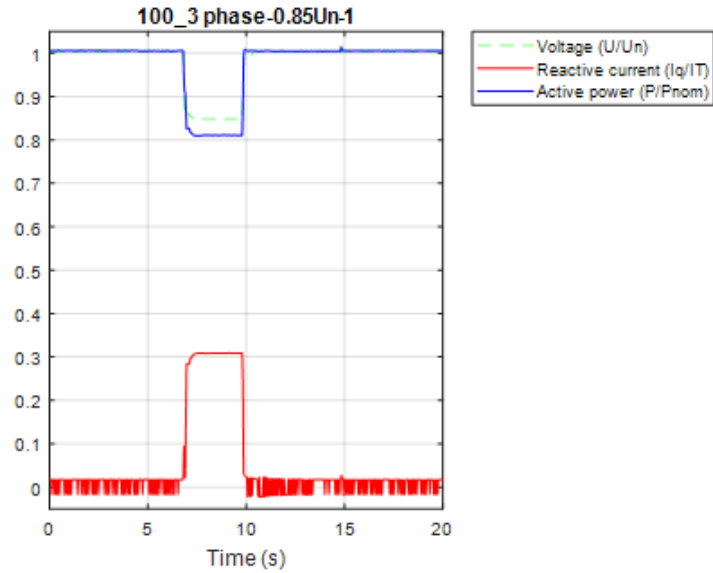
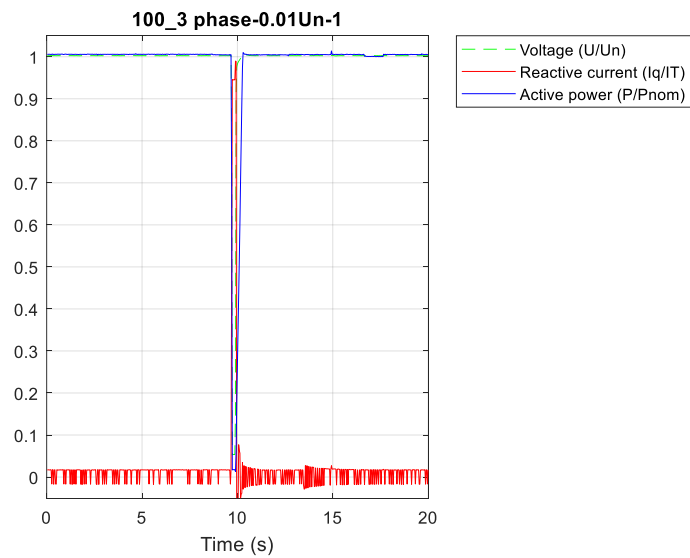
LVRT									
Fault type	Load	Voltage Level desired (%)	Voltage measured (%)	Time minimum (ms)	Time measured (ms)	Kf desired	Iqpos measured (%)	Iq neg measured (%)	Iq injection time (ms)
800 V (or reference V) 60 Hz									
3P	100%	0 ± 5%	5,21%*	200,00	240,00	2	94,84%	0,11%	20,00
1P	100%	0 ± 5%	7,82%*	200,00	233,80	2	51,68 %	48,79 %	20,00
3P	No Load	0 ± 5%	2,16%	200,00	237,00	--	--	--	-
1P	No Load	0 ± 5%	3,63%	200,00	244,00	--	--	--	-
3P	100%	20 ±5%	20,47%	700,00	900,00	2	100,71%	0,12%	40,00
1P	100%	20 ±5%	73,46%	700,00	880,00	2	51,39%	50,30%	20,00
3P	100%	50 ±5%	50,71%	1300,00	2004,00	2	93,33%	-0,14%	20,00
1P	100%	50 ±5%	84,77%	1300,00	1870,40	2	32,77 %	31,64 %	40,00
3P	100%	85 ± 5%	84,93%	2000,00	3022,70	2	30,04%	0,12%	40,00
1P	100%	85 ± 5%	94,99%	2000,00	3006,00	2	0,17%	0,97%	40,00

(*) Voltage level above desired due to inverter's current injection. "No Load" tests performed to verify LVRT conditions.

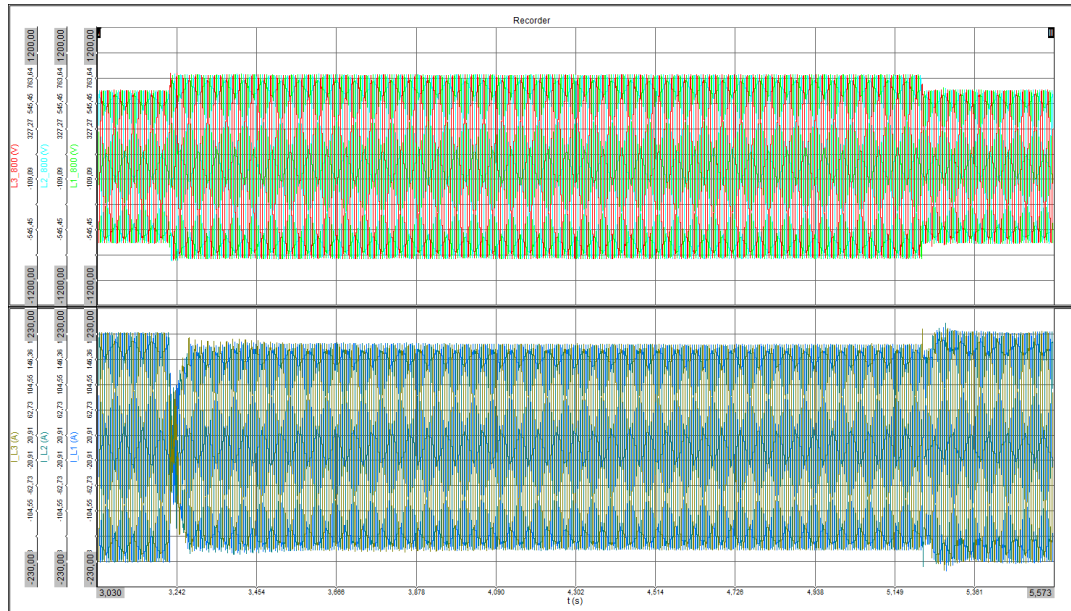
Note 3: Minimum time interval between 2 consecutives LVRT of 300 ms, by manufacturer declaration (Certificate no. 19-0650_0 based on FGW TR 4 Rev.09).

HVRT									
Fault type	Load	Voltage Level desired (%)	Voltage measured (%)	Time minimum (ms)	Time measured (ms)	Kf desired	Iqpos measured (%)	Iq neg measured (%)	Iq injection time (ms)
800 V (or reference V) 60 Hz									
3P	100%	120 ± 5%	119,44%	2000,00	2014,65	1,77	-32,08%	0,12%	40,00

Note 4: Configurable reactive power injection within the voltage tolerance, after fault recovery between 0s and 5s, by manufacturer declaration.

Graphic-Fault type LVRT 3P-0,85**Graphic-Fault type LVRT 3P_0,01**

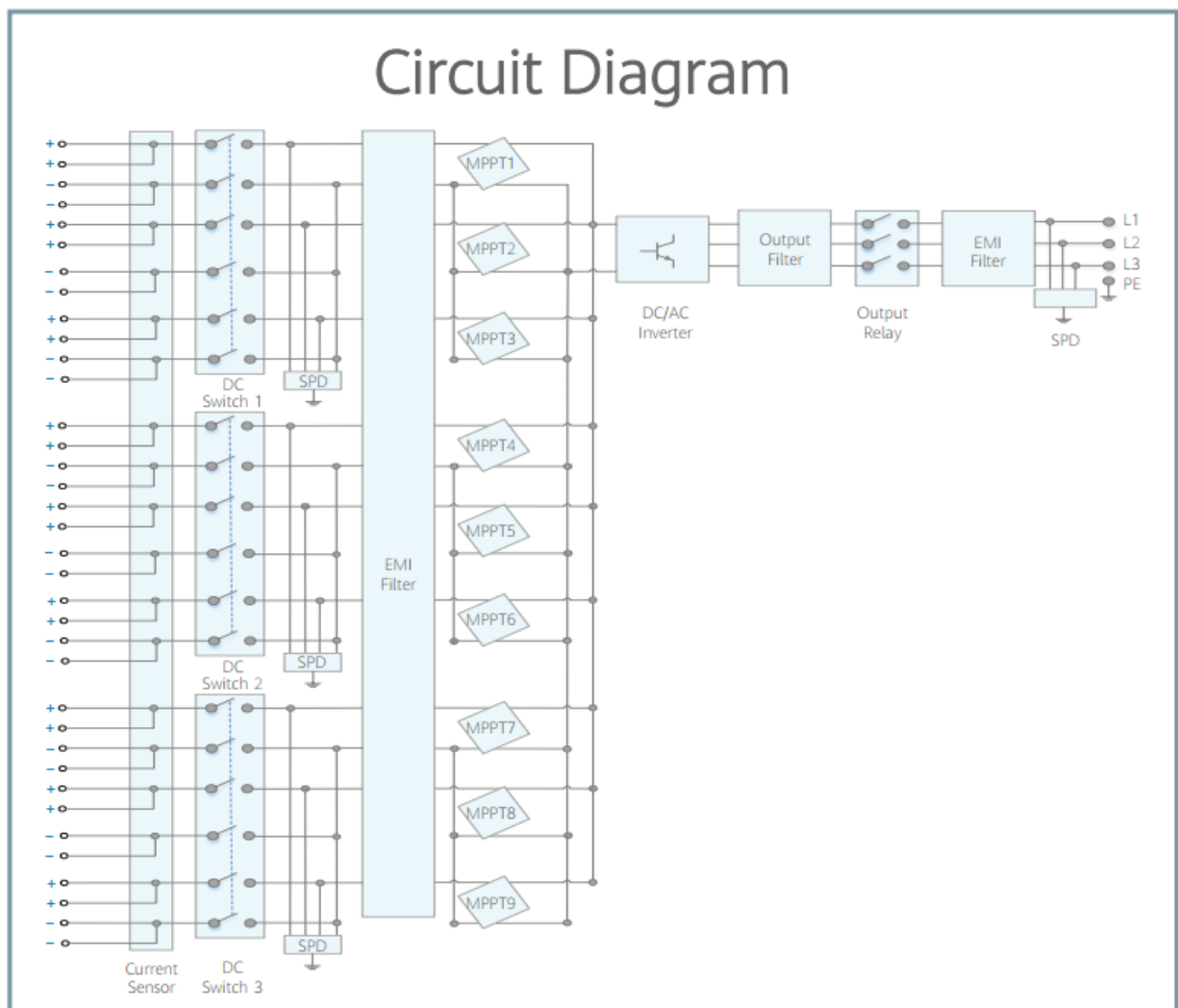
Graphic-Fault type HVRT



6. PICTURES



7. ELECTRICAL SCHEME



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TESTING LABORATORY

Name : Certification Entity for Renewable Energies, S.L.
(CERE Testing Laboratory)
Address : C/ Monturiol 15. 28906. Getafe - Madrid - España.
Conducted (tested) by : Otto Intriago
Test Date : 28/04/2021; 12/11/2021
Issue Date : 23/03/2022

SITE TEST

Name : Certification Entity for Renewable Energies, S.L.
Address : C/ Monturiol 15. 28906. Getafe - Madrid - España.

LICENCE HOLDER

Name : Huawei Technologies Colombia S.A.S.
Address : Cra 68ª No. 24B-10. Plaza Claro, Tower 2, 10th floor.

APPLICANT

Name : Huawei Technologies Colombia S.A.S.
Address : Cra 68ª No. 24B-10. Plaza Claro, Tower 2, 10th floor.

APPLIED SPECIFICATIONS

This protocol is based on the standard : **Comisión de Regulación de Energía y Gas: Resolución No. 060 de 2019.** Por la cual se hacen modificaciones y adiciones transitorias al Reglamento de Operación para permitir la conexión y operación de plantas solares fotovoltaicas y eólicas en el SIN y se dictan otras disposiciones.
• Article 14. Clause 5.7 c) and d)

SAMPLES CHARACTERISTICS

Apparatus type/ Installation : Three-Phase Solar Inverter

Manufacturer/ Supplier/ Installer : Huawei

Trademark : 

Models : SUN2000-185KTL-H1

Serial Number : 6T1979046065 Y

Firmware version : V300R001

Rated Characteristics : Pn: 175,00 kW, Pmax: 185,00 kW, 800VAC, 60Hz & 126,30A
See point 2 of this test report, "General Information"

Performed by: 	Approved by: 
Otto Intriago (Testing Engineer)	Alberto Martín (Technical Manager)

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1. SCOPE

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2. GENERAL INFORMATION

2.1. Tested item: Particular characteristics.

Input	500 – 1500 Vdc, max 1500Vdc
Output	800 Vac,
Class of protection against electric shock	Class I
Degree of protection against moisture	IP66
Type of connection to the main supply	3W + PE
Cooling group	Smart Air Cooling
Modular	No
Internal Transformer	No
Climatic Condition	-25 °C~ 60 °C

2.2. Rating plate:



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2.3. Summary of inspection and test results:

All the tests and checks have been performed in accordance with the reference Standard as specified previously.

The results obtained apply only to the particular sample tested that is the subject of the present test report. The most unfavourable result values of the verifications and tests performed are contained herein.

Throughout this report a comma is used as the decimal separator.

Version	Modifications
0	Initial report

The present test report cannot be copied partially without the express written consent of the Testing Laboratory.

Two setups were used to perform the tests:

- Setup 1 was used to perform LVRT (28/04/2021)
- Setup 2 was used to perform HVRT (12/11/2021)

NOTE: Accredited activities can be found into the accreditation scope.

WEATHER CONDITIONS

Temperature: 23,00 - 24,60 °C

Humidity: 25,40 – 35,20 %HR

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3. TEST EQUIPMENT LIST / MEASUREMENT UNCERTAINTY & TEST SETUP

3.1. Test Equipment List:

CERE'S EQUIPMENT LIST

Set up 1

No.	TEST EQUIPMENT	MANUFACTURER / MODEL	CODE N°	CALIBRATION DATE	
				LAST	DUE
1	Power Analyzer	ZES ZIMMER / LMG500	CERE_001	13/05/2020	13/05/2022
2	AC Current Sensor	ZES ZIMMER / L45-Z10	CERE_002 CERE_003 CERE_004	13/05/2020	13/05/2022
3	Multimeter	FLUKE / 179	CERE_008	26/10/2020	26/10/2021
4	Weather station	VELLEMAN / WS8472	CERE_012	22/10/2020	22/10/2021

Set up 2

No.	TEST EQUIPMENT	MANUFACTURER / MODEL	CODE N°	CALIBRATION DATE	
				LAST	DUE
1	Power Analyzer	Dewesoft / SIRIUS	CERE_180	18/05/2021	18/05/2023
2	AC Current Sensor	LEM / IT 700-S	CERE_212 CERE_213 CERE_214	13/05/2020	13/05/2022
3	Multimeter	FLUKE / 179	CERE_008	02/11/2021	02/11/2022
4	Weather station	VELLEMAN / WS8472	CERE_012	22/10/2021	22/10/2022

3.2. Measurement Uncertainties:

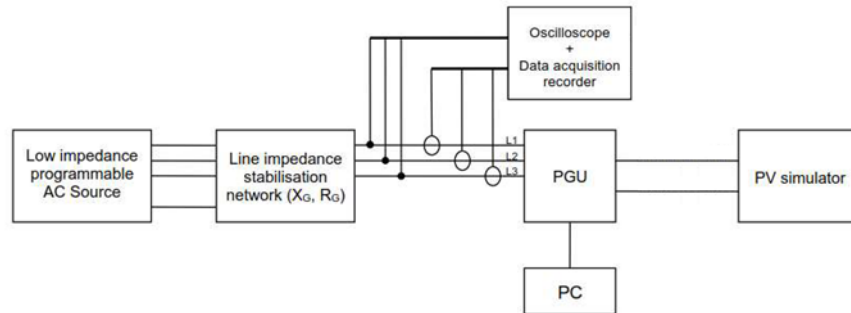
Setup 1

Voltage measurement uncertainty	±0,46 %
Current measurement uncertainty	±0,78 %
Power measurement uncertainty	±0,38 %
Frequency measurement uncertainty	±0,12 %

Setup 2

Voltage measurement uncertainty	±0,26 %
Current measurement uncertainty	±0,29 %
Power measurement uncertainty	±0,26 %
Frequency measurement uncertainty	±0,12 %

3.3. Test set up:



Current sensors and voltage probes have been connected to the output and/or input of equipment under test (EUT) according to each test requirement.

All the tests described in the following pages have been performed using this specified test setup.

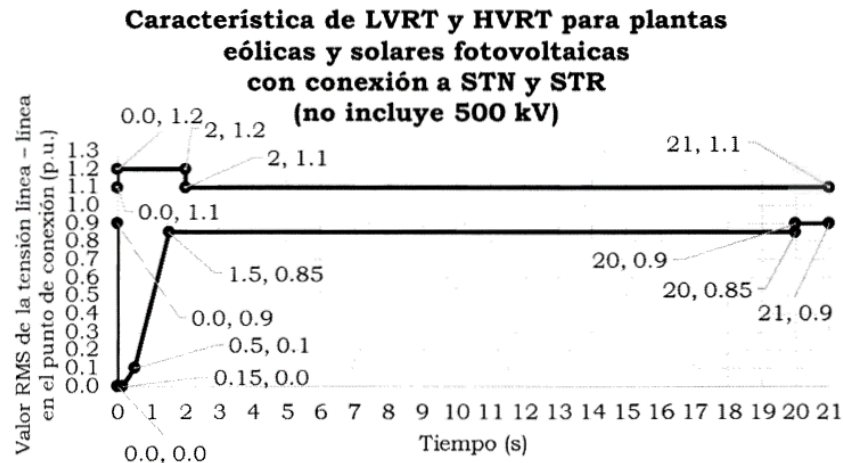
4. RESUME OF TEST RESULTS

4.1. Chapter of the Standard

Test N°	Test Description:	Standard Reference
5.1	LVRT & HVRT	14 (Características de depresiones de tensión y sobretensiones)

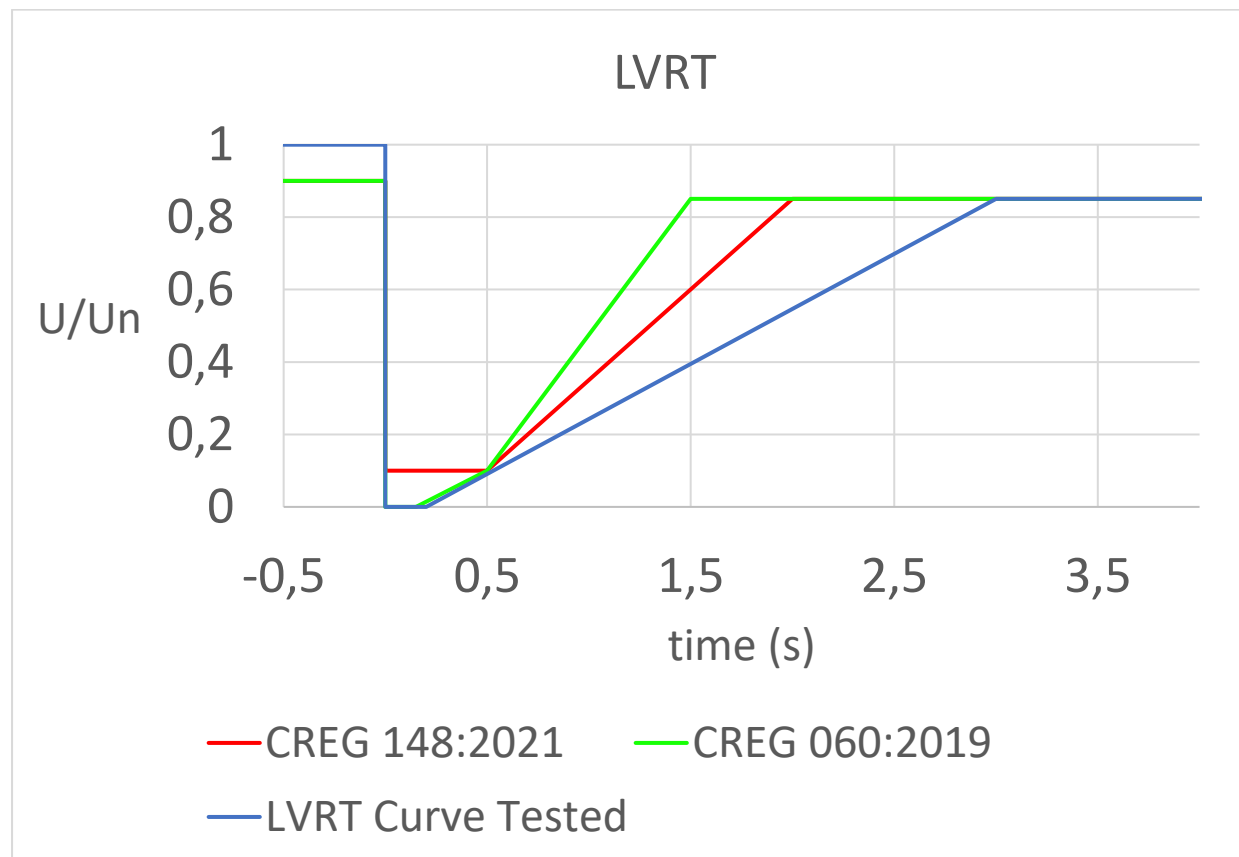
5. TEST RESULTS

5.1. LVRT & HVRT



Note 1: Most restrictive LVRT&HVRT case from the standard has been taken.

Note 2: LVRT tests performed to match with CREG 148:2021 and CREG 060:2019 requirements, as shown in the picture below.



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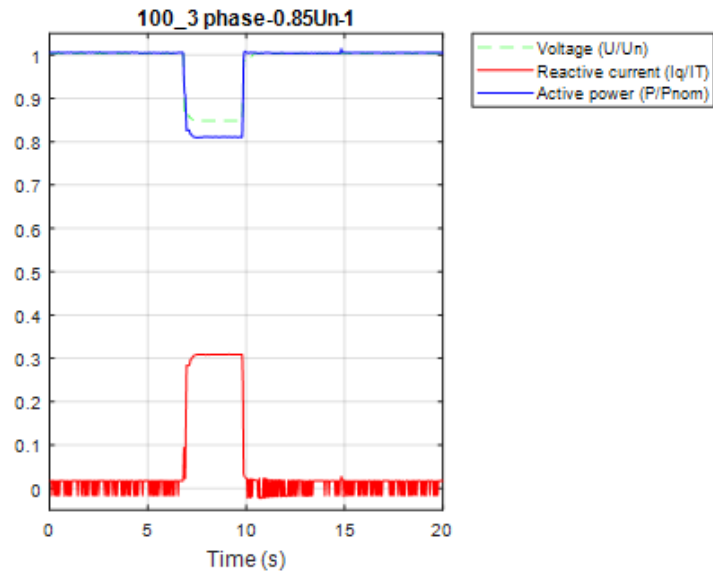
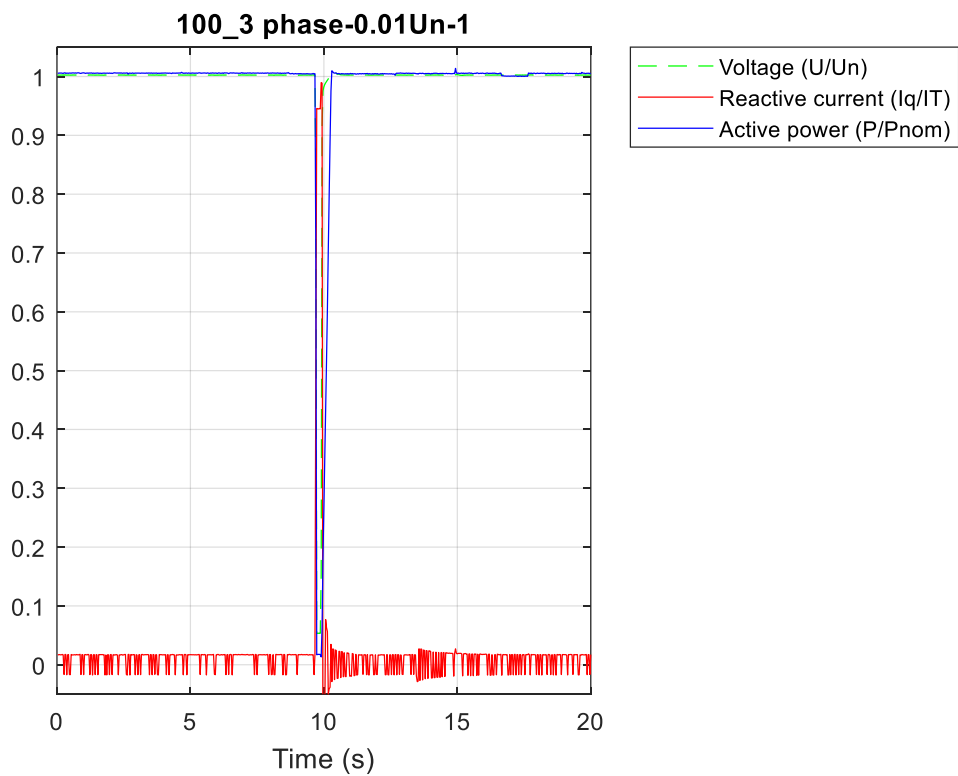
LVRT									
Fault type	Load	Voltage Level desired (%)	Voltage measured (%)	Time minimum (ms)	Time measured (ms)	Kf desired	Iqpos measured (%)	Iq neg measured (%)	Iq injection time (ms)
800 V (or reference V) 60 Hz									
3P	100%	0 ± 5%	5,21%*	150,00	240,00	2	94,84%	0,11%	20,00
1P	100%	0 ± 5%	7,82%*	150,00	233,80	2	51,68 %	48,79 %	20,00
3P	No Load	0 ± 5%	2,16%	150,00	237,00	--	--	--	-
1P	No Load	0 ± 5%	3,63%	150,00	244,00	--	--	--	-
3P	100%	20 ±5%	20,47%	633,33	900,00	2	100,71%	0,12%	40,00
1P	100%	20 ±5%	73,46%	633,33	880,00	2	51,39%	50,30%	20,00
3P	100%	50 ±5%	50,71%	1033,33	2004,00	2	93,33%	-0,14%	20,00
1P	100%	50 ±5%	84,77%	1033,33	1870,40	2	32,77 %	31,64 %	40,00
3P	100%	85 ± 5%	84,93%	1500,00	3022,70	2	30,04%	0,12%	40,00
1P	100%	85 ± 5%	94,99%	1500,00	3006,00	2	0,17%	0,97%	40,00

(*) Voltage level above desired due to inverter's current injection. "No Load" tests performed to verify LVRT conditions.

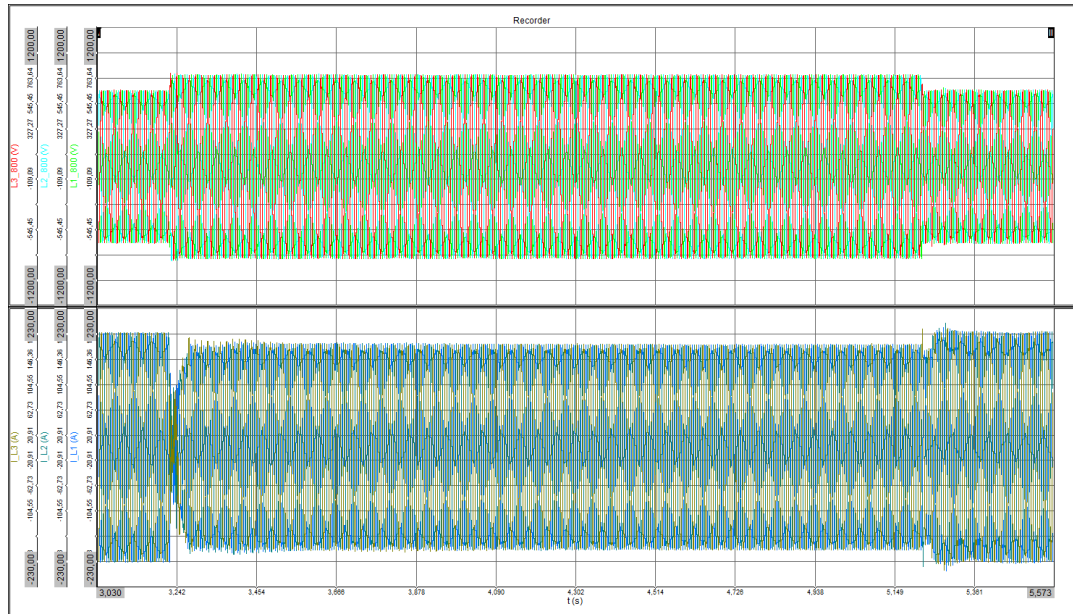
Note 3: Minimum time interval between 2 consecutives LVRT of 300 ms, by manufacturer declaration (Certificate no. 19-0650_0 based on FGW TR 4 Rev.09).

HVRT									
Fault type	Load	Voltage Level desired (%)	Voltage measured (%)	Time minimum (ms)	Time measured (ms)	Kf desired	Iqpos measured (%)	Iq neg measured (%)	Iq injection time (ms)
800 V (or reference V) 60 Hz									
3P	100%	120 ± 5%	119,44%	2000,00	2014,65	1,77	-32,08%	0,12%	40,00

Note 4: Configurable reactive power injection within the voltage tolerance, after fault recovery between 0s and 5s, by manufacturer declaration.

Graphic-Fault type LVRT 3P-0,85 (Inverter)**Graphic-Fault type LVRT 3P_0,01 (Inverter)**

Graphic-Fault type HVRT (Inverter)



6. PICTURES



7. ELECTRICAL SCHEME

