

Certificate of compliance

Applicant: Huawei Technologies Co., Ltd.

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

Bantian, Longgang District, Shenzhen, 518129

P.R. China

Product: SOLAR INVERTER

Model SUN2000-100KTL-H1, SUN2000-105KTL-H1

Use in accordance with regulations:

Automatic disconnection device with three-phase mains surveillance in accordance with EN50549-2:2019 for photovoltaic systems with a three-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the aforementioned inverter.

Firmware version: V200R001

Connection rule: EN 50549-2:2019:

Requirements for generating plants to be connected in parallel with distribution

networks - Part 2:

Connection to a MV distribution network - Generating plants up to and including

Type B

Standards / directives for

testing: FGW TG3, Rev. 25: 2018-09-01

Report number: 18TH0387-EN50549-2_0 Certification scheme: NSOP-0032-DEU-ZE-V01

Certificate number: U20-0110 2020-03-02





Certification body of Bureau Veritas Consumer Products Services Germany GmbH accredited according to DIN EN ISO/IEC 17065 A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH



Annex to the EN 50549-2 certificate of compliance No. U20-0110

Extract from test report according to EN 50549-2

Nr. 18TH0387-EN50549-2_0

Type Approval and declaration of co	Гуре Approval and declaration of compliance with the requirements of EN 50549-2					
Manufacturer / applicant:	Huawei Technologies Co., Ltd. Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129 P.R. China					
Product description:	Grid-tied photovoltaic inverter					
Unit / Type:	SUN2000-100KTL-H1	SUN2000-105KTL-H1				
Full-load MPP DC voltage range [V]:	880 - 1300					
Input DC voltage range [V]:	600 -	1500				
Input DC current [A]:	max. 22A x 6	max. 25A x 6				
Nominal output AC voltage [V]:	800 (3~ + P	E, 50/60 Hz)				
Output AC current [A]:	max. 80,2	max. 84,6				
Nominal active output power [kW]:	100	105				
Max. apparent output power [kVA]:	105 116					
Firmware version:	V200	R001				

Description of the structure of the power generation unit:

The input and output are protected by Varistors to Earth. The unit is providing EMC filtering at the output toward mains. The unit does not provide galvanic separation from input to output (transformerless). The output is switched off redundant by the high power switching bridge and a two relays. This assures that the opening of the output circuit will also operate in case of one error.



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Parameter Table

B U R E A U VERITAS	Firma / Company:	Huawei Technologies Co., Ltd.	Projekt-Nr. / Project-no.:	18TH0387
	Ansprechpartner / Customer Contact:	Qingbin CHEN		Weizhao Zheng
		Website: http://www.huawei.com	BV-Kontakt / BV Contact:	Tel: +49 40 74041 - 2267
		Email: support@huawei.com	Contact.	weizhao.zheng@de.bureauveritas.com

Parameter list of SUN2000-105KTL-H1& SUN2000-100KTL-H1

1. General information regarding the Parameter list

Manufacturer:	Huawei Technologies Co., Ltd.
Created by:	Qingbin Chen
Created on:	2020-02-26
Revised on:	V1.0

2. Information regarding the power generating unit

Type designation	Rated power [kW]	Rated active current [A] (at cosφ = 1)	
SUN2000-105KTL-H1	105	75.8A	
SUN2000-100KTL-H1	100	72.2A	

3. Parameter set during the measurement

If no noted otherwise the following standard parameters were used during the measurement.

All adaptations to the standard parameters used during the measurement were documented in the TG3 test report.

4. Main Components of the regulating system

Main components of the control system with firmware and software				
Main component(s) of the control system				
Firmware version	V200R001			
Software version	V200R001			

5. Relevant parameters for the electrical behaviour

No.	Name	Description	Unit	Setting range		Default value		
				Min.	Max.	(acc. to parameter set)		
Gene	General parameter settings (rated values or reference values)							
1	Pn	Rated active power	kW	parameter n	ot adjustable	105 kW @ SUN2000-105KTL- H1 100 kW @SUN2000-		
						100KTL-H1		
2	Smax	Max apparent power	kVA	parameter n	ot adjustable	116 kVA @ SUN2000-105KTL- H1		
						105 kVA @ SUN2000-100KTL- H1		

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A VENEZA	Firma / Company:	Huawei Technologies Co., Ltd.	Projekt-Nr. / Project-no.:	18TH0387
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BUREAU VERITAS	Castomer Contact.	Email: support@huawei.com	comact.	weizhao.zheng@de.bureauveritas.com

No.							
A	No.	Name	Description	Unit			(acc. to parameter
Security	3	Un	Rated voltage	V	parameter n	ot adjustable	800V
S Fine Rated frequency Hz parameter Total Total Total Total	4	In	Rated current	А	parameter not adjustable		
Active power peaks Firmax							
Maximum active power limit MW parameter not adjustable SUN2000-105KTL-H1 105 kW @ SUN2000-100KTL-H1 100 kW 100 k	5	Fn	Rated frequency	Hz	parameter n	ot adjustable	50
SUN2000-105KTL-H1 105 kW @ SUN2000-100KTL-H1 7 Maximum active power power baseline 8 Active power Pmaxref kW 0.100 Pmax Pmax Pmax Operating power limited by grid operator 9 Shutdown at 0% power limit function enable 10 Active power change gradient gradient 11 Fixed active power change proventerated power derated proventerating derating 12 Active power percentage derating 13 Reactive power change gradient gradient 14 Reactive power gradient gradient 15 Reactive power derated percentage derating 16 Reactive power derated for the power change gradient gradient 17 Quit frequency of over frequency derating function enable 18 Cuttoff frequency derating 19 Shutdown at 0% power limit power limit power limit function enable with power limit function enable function power reduction) 10 Active power limited by grid operator 11 Fixed active power change gradient power derated kW 0.0 plimit plimit plimit plimit 12 Active power gradient power change gradient stanting function of grid frequency derating function enable function enable function enable function power frequency derating function power reduction) 12 Quit frequency of frequency gregulation - power reduction frequency gregulation - power reduction frequency regulation - power reduction) 18 Cuttoff frequency enable function of frequency preduction power reduction frequency regulation - power reduction) 19 Shutdown at 0% power limited by 0.100 0.100.000 0.1	Activ	e power peaks					
Sunzono-10ĭkTL-H1	6	Pmax	Maximum active power limit	kW	parameter no	ot adjustable	SUN2000-105KTL-
Power Pmaxref Reactive power Pmaxref Reactive power derated derating Pmaxref Reactive power derated derating Pmaxref Reactive power derated derating Pmaxref							SUN2000-100KTL-
Disable Disa	7		Plimilt	kW	0.100	Pmax	Pmax
9 Shutdown at 0% Shutdown at 0% power limit power limit function enable 10 Active power change gradient 11 Fixed active power derated power derated power derated power derated power derated derating 12 Active power percentage derating 13 Reactive power change gradient 14 Reactive power change gradient 15 Overfrequency derating 16 Trigger frequency derating 17 Quit frequency of over frequency derating 18 Cuttoff frequency derating 19 Shutdown at 0% power limit power limit function enable 10 Disable Plimit plimit plimit plimit plimit power limit plimit plimit plimit power limit power limit power limit power limit plimit p	8		Pmaxref	kW	0.100	Pmax	Pmax
power limit function enable 10 Active power change gradient gradient 11 Fixed active power derated power derated power derated prover derated derating 12 Active power percentage derating 13 Reactive power change gradient 14 Reactive power change gradient 15 Reactive power derated gradient 16 Trigger frequency derating 17 Quit frequency derating 18 Cuttoff frequency derating 18 Cuttoff frequency derating 19 Active power percentage derating 10 0.0 Plimilt Plimilt Power feed on 100.0 Plimilt Power feed on 100.0	Opera	ating power limite	ed by grid operator				
change gradient gradient Fixed active power derated Fixed active power derating Fixed active power change gradient Fixed active power change gradient Fixed active power change gradient Fixed active power adjustment Fixed active power adjus	9				Disable	/ Enable	Disable
power derated 12 Active power percentage derating 13 Reactive power change gradient 14 Reactive power adjustment time filme frequency derating 15 Overfrequency derating 16 Trigger frequency derating 17 Quit frequency of over frequency derating 18 Cuttoff frequency derating 18 Cuttoff frequency of over frequency derating frequency regulation - power reduction) 18 Cuttoff frequency of over frequency frequency regulation - power reduction) 18 Cuttoff frequency of over frequency regulation - power reduction) 18 Cuttoff frequency of over frequency regulation - power reduction) 18 Cuttoff frequency of over frequency regulation - power reduction)	10			%Pmaxref/s	0.100	1000.000	125.000
percentage derating 13 Reactive power change gradient 14 Reactive power adjustment time 1 120 10 Active power feed-in as a function of grid frequency derating function enable 16 Trigger frequency of over frequency derating 17 Quit frequency of over frequency derating 18 Cuttoff frequency of over frequency of over frequency of over frequency derating 18 Cuttoff frequency of over frequency of over frequency derating 18 Cuttoff frequency of over frequency derating frequency regulation - power reduction) 18 Cuttoff frequency of over frequency of over frequency of over frequency frequency derating 18 Cuttoff frequency of over frequency frequency regulation - power reduction) 18 Cuttoff frequency of over frequency frequency regulation - power reduction) 18 Cuttoff frequency of over frequency frequency regulation - power reduction) 18 Cuttoff frequency frequency frequency regulation - power reduction)	11		Fixed active power derated	kW	0.0	Plimilt	Plimilt
change gradient gradi	12	percentage		%Pmaxref	0.0	100.0	100.0
Active power feed-in as a function of grid frequency	13			%(0.6Smax)/s	0.100	1000.000	125.00
15 Overfrequency derating function enable	14			s	1	120	10
derating function enable 16 Trigger frequency of over frequency derating 17 Quit frequency of over frequency reduction) 18 Cuttoff frequency of over frequency of over frequency of over frequency derating 18 Cuttoff frequency of over frequency of over frequency of over frequency frequency of over frequency derating 18 Cuttoff frequency of over frequency of over frequency reduction) 18 Cuttoff frequency of over frequency of over frequency frequency reduction over frequency of over frequency of over frequency frequency reduction over frequency frequency reduction over frequency frequenc	Activ	e power feed-in a	s a function of grid frequenc	у			
frequency of over frequency derating 17 Quit frequency of over frequency of over frequency reduction) 18 Cuttoff frequency of over frequency of over frequency of over frequency derating 18 Cuttoff frequency of over frequency of over frequency reduction) End frequency P(f) (End of frequency P(f) (End of frequency of over frequency reduction) Hz 40.00 60.00 51.50 Table 1	15	, ,			Disable	/ Enable	Disable
of over frequency reduction - power reduction) 18 Cuttoff frequency of over frequency of over frequency derating End frequency P(f) (End of frequency reduction - power reduction) Hz 40.00 60.00 51.50	16	frequency of over frequency	frequency regulation - power	Hz	40.00	60.00	50.20
frequency of over frequency reduction) - power derating	17	of over frequency	frequency regulation - power	Hz	40.00	60.00	50.20
19 Cutoff power of End power P(f) (End of %PM 0 100 48	18	frequency of over frequency	frequency regulation - power	Hz	40.00	60.00	51.50
	19	Cutoff power of	End power P(f) (End of	%PM	0	100	48

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Extract from test report according to EN 50549-2

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No.	Name	Description	Unit	Setting	ı range	Default value
				Min.	Max.	(acc. to parameter set)
	over frequency derating	power of frequency regulation - power reduction)				
20	Power recovery gradient of overfrequency derating	Power recovery gradient when quit overfrequency derating	%Prated/min	1	6000	10

Note:

The required gradient (or droop) of the frequency dependent active power derating can be defined using the Parameters *Trigger frequency of over frequency derating*, *Cuttoff frequency of over frequency derating* and *Cutoff power of over frequency derating*.

Active power gradient following disconnection from the grid						
21	Soft start time after grid failure	The soft start time the active power from 0 to power rated after fault	s	1	1800	600
Reconnection time following disconnection from the grid						
22	Grid connection duration after power grid recovery	Time until reconnection	s	0	7200	60

Reactive power provision

a) Power factor fix control

23	Power factor	Cos phi specifications		(-1.000,-0.800] U [0.800,1.000]		1.000		
b	b) Reactive power fix control							
24	24 Reactive power Q specifications kvar -0.6·Smax 0.6·Smax 0.0							
	Old about the second of the second of							

c) Q-U characteristic curve 2)

Note:

²⁾ The	Q-U characteristi	c curve is free programmable w	ith up to 10 sup	porting points	S.	
25	Trigger power ratio	Q(U) function trigger power ratio of Pmax	%Pmax	10	100	20
26	Characteristic curve points	Number of Q-U characteristic curve		2	10	4
27	U/Un(A)	Q(U) characteristic node 1 U	%Un	80.0	136.0	90.0
28	Q/S(A)	Q(U) characteristic node 1 Q	/Smax	-0.600	0.600	0.436
29	U/Un(B)	Q(U) characteristic node 2 U	%Un	80.0	136.0	92.0
30	Q/S(B)	Q(U) characteristic node 2 U	/Smax	-0.600	0.600	0.000
31	U/Un(C)	Q(U) characteristic node 3 U	%Un	80.0	136.0	108.0
32	Q/S(C)	Q(U) characteristic node 3 Q	/Smax	-0.600	0.600	0.000
33	U/Un(D)	Q(U) characteristic node 4 U	%Un	80.0	136.0	110.0
34	Q/S(D)	Q(U) characteristic node 4 Q	/Smax	-0.600	0.600	-0.436
) O D -1					

d) Q-P characteristic curve 3)

Note:

3) The Q-P characteristic curve is free programmable with up to 10 supporting points.

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BUREAU VERITAS	- Carlana	Email: support@huawei.com	John Garage	weizhao.zheng@de.bureauveritas.com

No.	Name	Description	Unit	Setting	ı range	Default value
				Min.	Max.	(acc. to parameter set)
35	Characteristic curve points	Number of Q-P characteristic curve	-	2	10	5
36	P/Pmax(A)	Q(P) characteristic node 1 P	%Pmax	0.0	100.0	10.0
37	Q/Qmax(A)	Q(P) characteristic node 1 Q	/Smax	-0.600	0.600	0.000
38	P/Pmax(B)	Q(P) characteristic node 2 P	%Pmax	0.0	100.0	50.0
39	Q/Qmax(B)	Q(P) characteristic node 2 Q	/Smax	-0.600	0.600	0.000
40	P/Pmax(C)	Q(P) characteristic node 3 P	%Pmax	0.0	100.0	60.0
41	Q/Qmax(C)	Q(P) characteristic node 3Q	/Smax	-0.600	0.600	-0.050
42	P/Pmax(D)	Q(P) characteristic node 4 P	%Pmax	0.0	100.0	90.0
43	Q/Qmax(D)	Q(P) characteristic node 4 Q	/Smax	-0.600	0.600	-0.330
44	P/Pmax(E)	Q(P) characteristic node 5 P	%Pmax	0.0	100.0	100.0
45	Q/Qmax(E)	Q(P) characteristic node 5 Q	/Smax	-0.600	0.600	-0.330
PGU (disconnection fro	om the grid				
46	10 minute OV protection	10 minute voltage average value protection point	p.u	1.00Un	1.25Un	1.10Un
47	10 minute OV protection time	10 minute voltage average value protection time	ms	50	7200000	200
48	Level-1 OV protection	Level 1 over voltage protection point	p.u	1.00Un	1.25Un	1.15Un
49	Level-1 OV protection time	Level 1 over voltage protection time	ms	50	7200000	61000
50	Level-2 OV protection	Level 2 over voltage protection point	p.u	1.00Un	1.36Un	1.25Un
51	Level-2 OV protection time	Level 2 over voltage protection time	ms	50	7200000	200
52	Level-1 UV protection	Level 1 under voltage protection point	p.u	0.15Un	1.00Un	0.80Un
53	Level-1 UV protection time	Level 1 under voltage protection time	ms	50	7200000	5000
54	Level-2 UV protection	Level 2 under voltage protection point	p.u	0.15Un	1.00Un	0.50Un
55	Level-2 UV protection time	Level 2 under voltage protection time	ms	50	7200000	2000
56	Level-1 OF protection	Level 1 over frequency protection point	Hz	50.00	60.00	51.50
57	Level-1 OF protection time	Level 1 over frequency protection time	ms	50	7200000	500
58	Level-2 OF protection	Level 2 over frequency protection point	Hz	50.00	60.00	52.00
59	Level-2 OF protection time	Level 2 over frequency protection time	ms	50	7200000	200
60	Level-1 UF protection	Level 1 under frequency protection point	Hz	40.00	50.00	47.50

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No	No. Name Description Unit Setting range Default value					
NO.	Name	Description	Offic	Min.	Max.	(acc. to parameter set)
61	Level-1 UF protection time	Level 1 under frequency protection time	ms	50	7200000	500
62	Level-2 UF protection	Level 2 under frequency protection point	Hz	40.00	50.00	47.00
63	Level-2 UF protection time	Level 2 under frequency protection time	ms	50	7200000	200
Conn	Connection conditions					
64	Auto start upon grid recovery	Enable Auto start upon grid after grid fault		Disable	/Enable	Enable
65	Grid reconnection voltage upper limit	Limit value connection U>	p.u	Un	1.36Un	1.10Un
66	Grid reconnection voltage lower limit	Limit value connection U<	p.u	0.45Un	1.00Un	0.90Un
67	Grid reconnection frequency upper limit	Limit value connection f>	Hz	50.00	60.00	50.20
68	Grid reconnection frequency lower limit	Limit value connection f<	Hz	40.00	50.00	49.50
Resp	onse during grid	faults				
69	LVRT	LVRT enable		Enable	Disable	Enable
78	LVRT triggering threshold	LVRT triggering threshold	V	0.50Un	1.00Un	0.90Un
79	LVRT reactive power compensation factor	k factor		0.0	10.0	2.0
80	HVRT HVRT enable Enable/Disable		'Disable	Enable		
81	HVRT triggering threshold	LVRT triggering threshold	V	1.00Un	1.36Un	1.10Un
82	HVRT reactive power compensation factor	k factor		0.0	6.0	2.0
83	VRT exit hysteresis threshold	VRT exit hysteresis threshold	V	0.02Un	0.1Un	0.02Un
84	Grid voltage protection shield during HVRT/LVRT	Grid voltage protection shield during HVRT/LVRT		Enable	/Disable	Enable
85	Zero current due to power	Zero current due to power grid fault		Enable/	/Disable	Disable

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No.	Name	Description	Unit	3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -		Default value
				Min.	Max.	(acc. to parameter set)
	grid fault					
Self-p	orotection					
98	Line voltage peak value protection point	Line voltage peak value protection point, exceeds which a non-delayed self- protection tripping occurs	p.u.	parameter n	ot adjustable	1.35·Un

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BUREAU VERITAS		Email: support@huawei.com	Comaci.	weizhao.zheng@de.bureauveritas.com

6. Description for reading out parameters

Reading out the parameters

Name:	SmartLogger WebUI and SUN2000 APP	
Version:	SmartLogger:V200R002	
	SUN2000 APP:3.2.00.002	

☐ The parameters can be read out using the display in the control system.

7. Interfaces

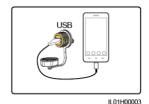
7.1. Active power specification

Interfaces for the active power reduction by defined setpoint

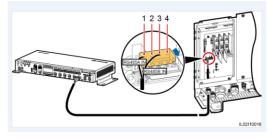
Following interfaces for control of the active power provision are provided on the PGU level:

connect a mobile phone that runs the SUN2000 app to the inverter using a Bluetooth module, a WLAN
module, or a USB data cable for active power setting using parameter Fixed active power derated or
Active power percentage derating;





 connect the inverter to Smartlogger via MBUS or RS485 for active power setting using the WebUI using the parameter Fixed active power derated or Active power percentage derating.



 connect the inverter to Smartlogger via MBUS or RS485, the digital interfaces DI1, DI2, DI3, DI4 of the Smartlogger can be connected to the dry contacts for active power setting.

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AS		appointering			
	<u>'</u>		· · · · · · · · · · · · · · · · · · ·		
1	4 DI1-DI8	1	Digital parameter input	Connects to a dry c input. GND1 and G grounding ports for	ND2 are
	8.1.2 DI A	ctive Scheduling	3		'
		NOTICE When setting this func Otherwise, the setting	ction, ensure that the DI port for custom	ized control is not occupied.	-
			action, ensure that the SmartLogger is pr	roperly connected to the	=
		Parameter	Description		
		Active Power Control Mode	Set this parameter to DI active sci	heduling	
		DI NOTE The DI parameters includ DII, DIZ, DIS, DI4, and Percentage(%).	Supports 16 levels of percents "\"\" indicates a low level. Whe connected, the four DD ports of loos-level ports. If not connected, ports. The percentage levels of D11-1 other Otherwise, an obnormal generators. If the actual input D1 signal is configured on the WebUI, the Schedule alarm is raised.	n DI+ and DI- are the SmartLogger are ed, the ports are high-level DI4 should differ from each command will be inconsistent with that SmartLogger controls the	
			State of Sta	AND SAND	

7.2. Reactive power specification

Interfaces for the provision of reactive power

Following interfaces for control of the reactive power provision are provided on the PGU level:

- connect a mobile phone that runs the SUN2000 app to the inverter using a Bluetooth module, a WLAN module, or a USB data cable for:
 - Power factor fix control
 - Reactive power fix control
 - o Q-P characteristic curve
 - Q-U characteristic curve

setting;





IL01H00003

- connect the inverter to Smartlogger via MBUS or RS485, the following reactive power control functions:
 - Power factor fix control
 - o Reactive power fix control
 - Q-P characteristic curve
 - Q-U characteristic curve

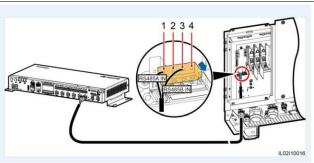
can be set using the WebUI.

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 connect the inverter to Smartlogger via MBUS or RS485, the digital interfaces DI5, DI6, DI7, DI8 of the Smartlogger can be connected to the dry contacts for power factor (cosφ) setting.

Figure 2-4 SmartLogger2000-10/10-B/11-B bottom

14 13 12 11

14 13 12 11

2 3 4 5 6 7 8 9 10

LOZWC0006

14	DII-DI8	Digital parameter input	Connects to a dry contact input. GND1 and GND2 are grounding ports for DI signals.
----	---------	-------------------------	--

8.2.2 DI Reactive Scheduling

When setting this function, ensure that the DI part lise contempted omitted is not compared. Otherwise, the setting wild fail.

 Before exting this function, some dust the feasief Laguer is properly connected to the Ripple Central Receiver.

Facameter.	Description
Reactive person control - mode	Set this populator to DI reactive scheduling
DI 900TE The Dipermeter, sechale DIA DIA DIC DIS. and Fewer lastes	• Boston liveds on supported for power factors: • ">" in indicating a low lived. When consusting in CND2, the first ID post of the functioning and low-level appear. If not consusted, the ports and light-level point. • The procumput levels of DS-IDS should delive from each other. Delevelses, no Anomal command is generated. • If the notatal input ID signal is inconsistent with that configuration out the Well-X. The foliant disagree control designation of the Well-X. The foliant disagree control designation to work at this power and the Alanomail Research's Schedule designation is mixed.



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