

Certificate of Conformity

No. ESY 041829 5616 Rev. 00

Holder of Certificate: **Huawei Technologies Co., Ltd.**
Administration Building
Headquarters of Huawei Technologies Co., Ltd.
Bantian, Longgang District
518129 Shenzhen
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
(PV Inverter)

Model(s): **SUN2000-30K-MC0, SUN2000-40K-MC0,
SUN2000-50K-MC0**

Parameters: See page 3-4

Applicable standards: UNE 217001:2020
RD 244:2019

This Certificate of Conformity confirms the compliance with the above listed standards on a voluntary basis. It refers only to the sample submitted to TÜV SÜD Product Service GmbH and does not certify the quality or safety of the serial products. It was issued according to TÜV SÜD Product Service certification program Photovoltaics and Grid Integration. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290253082601

Date, 2025-10-14



(Billy Qiu)

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Certification Body TÜV SÜD Product Service GmbH performed assessment of the products listed below:

Test requirement	The certification complies with the requirements of the following documents: UNE 217001:2020, Tests for systems that avoid energy discharge to the distribution network. Royal Decree 244:2019, of April 5, which regulates the administrative, technical and economic conditions of self-consumption of electrical energy.
Manufacturer	Huawei Technologies Co., Ltd. Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, 518129 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Product types used in power generation system	Inverter: Three-phase inverter Network analyzer (Meter)/ SmartLogger /Current transformer
Model and Technical Data	See page 3-4
Software version	Inverter: SUN2000MC V800R025C00 Network analyzer (Meter): 202 SmartLogger: V100R025C00
Test Report	64.290.25.30826.01
Issued by	Testing lab: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
Accreditation No.	D-PL-19065-01-00
Accreditation body ref.	DAkkS
Reference of the certification body	
Certification Body	TÜV SÜD Product Service GmbH
	DAkkS accreditation certificate D-ZE-11321-01-00 according to DIN EN ISO/IEC 17065:2013

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Parameters:

Model	SUN2000-30K-MC0		SUN2000-40K-MC0	SUN2000-50K-MC0
PV terminal parameters				
Maximum PV voltage [V _{DC}]	1100			
Rated voltage [V _{DC}]	600			
MPPT voltage range [V _{DC}]	180-1000			
MPPT voltage range (full load) [V _{DC}]	500-800	540-800	530-800	
Maximum input current [A _{DC}]	27/27/27/27			30/33/33/30
Isc PV [A _{DC}]	40/40/40/40			40/44/44/40
MPPT tracker number	4			
Grid terminal output parameters				
Rated output voltage [V _{AC}]	3P+N+PE, 230/400			
Rated output frequency [Hz]	50			
Rated output current [A _{AC}]	43.3	57.7	72.2	
Maximum continuous output current [A _{AC}]	47.9	63.8	79.8	
Rated output active power [W]	30000	40000	50000	
Maximum output active power [W]	33000	44000	55000	
Maximum output apparent power [VA]	33000	44000	55000	
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)			

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Network analyzer Parameters(Meter):

Model	DTSU666-H 250A/50mA
Electrical parameter	
Voltage connect type [V _{AC}]	3P+N+PE, 230/400
Rated Frequency [Hz]	50
Current specification [A _{AC}]	250/0.05
Energy consumption [W]	≤1.5
Type	Through transformer
Precision parameter	
Maximum error limit percentage of various instruments [%]	±2.0
Precision class	Active Power class 1
Communications	
Communication type	RS485, ModBus-RTU Protocol
Refresh time [ms]	500

SmartLogger Parameters:

Model	SmartLogger5000B
Communication interface compatibility	RS485, ETH, MBUS (optional), 4G(optional)
Speed of the communication interface [bps]	1200/2400/4800/9600/19200/115200 (Default 9600)

Current transformer Parameters:

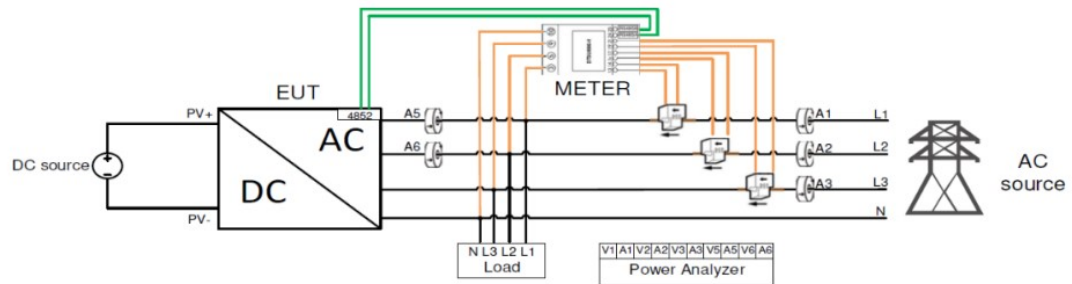
Model	CTF24-5K-250
Rated primary current [A _{AC}]	250
Rated transformation ratio	5000:1
Rated load [Ω]	20
Rated Frequency [Hz]	50
Accuracy [%]	±0.5

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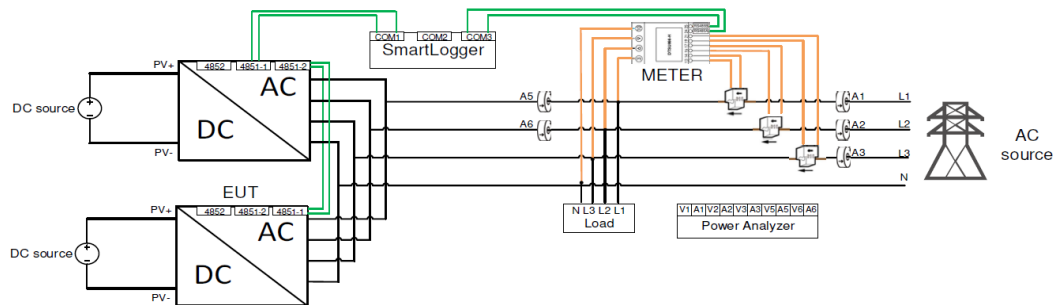
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Electrical schematic diagram:

1. The following figure shows the operating diagram of single generator. Generator communicates with meter through RS485, receives the grid connection point current collected by the CT, schedules output active power in real time to prevent energy from being injected into the grid.



2. The following figure shows the operating diagram of two generators working in parallel. Different from working with in single generator, add the SmartLogger between inverters and meters for communication.



3. According to the test results of test clause "Determining the maximum number of generators", the maximum number of generators that can be included in the system is 11.

Note:

Note 1: Variant models of network analyzer (without control) and current and voltage transformer can be included in the certified solution, provided that they comply with:

- Same connection scheme (single-phase or three-phase)
- Same measurement tolerance
- Same or shorter refresh time
- Same type of communication
- If additional current or voltage transformers are required, the accuracy of the components shall be the same or higher.

Note 2: All the tests conducted to obtain this certificate have been passed by acting on the generation system to regulate the power generated. No cut-off or current limiting element is required to be installed redundantly to the tested solution.