

Certificate of Conformity

No. ESY 114387 0099 Rev. 01

Holder of Certificate: Huawei Digital Power Technologies Co., Ltd.
Office 01, 39th Floor, Block A
Antuoshan Headquarters Towers
33 Antuoshan 6th Road, Futian District
518043 Shenzhen
PEOPLE'S REPUBLIC OF CHINA

**Product: Converter
(Hybrid Inverter)**

**Model(s): SUN2000-12K-MB0, SUN2000-15K-MB0,
SUN2000-17K-MB0, SUN2000-20K-MB0,
SUN2000-25K-MB0, SUN5000-17K-MB0,
SUN5000-25K-MB0**


Parameters: See page 3-4

Applicable standards: NTS V2.1:2021-07

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.: 64290233089202

Date, 2024-06-20



(Billy Qiu)

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

Type of PGM to be installed	Hybrid Inverter, Type A
Test requirement	The certification complies with the requirements of the following documents: Technical standard for monitoring the compliance of electricity generating modules according to EU Regulation 2016/631. Version 2.1 (2021-07-09) + correction of errors of Version 2.1 (2021-10-08)
Manufacturer	Huawei Digital Power Technologies Co.,Ltd. Office 01, 39th Floor, Block A, Antuoshan Headquarters Towers, 33 Antuoshan 6th Road, Futian District, 518043 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Model and Technical Data	See page 3-4
Software version	V200R023

Scope of assessment and results

Clause of NTS V2.1	Requirement	Type A	Assessment
5.1.	Power-frequency limited over-frequency regulation mode (MRPFL-O)	Yes	Pass

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Parameters:

Model	SUN2000-12K-MB0	SUN2000-15K-MB0	SUN2000-17K-MB0	SUN2000-20K-MB0	SUN2000-25K-MB0
PV terminal parameters					
Maximum PV voltage [V _{DC}]	1100				
Rated voltage [V _{DC}]	600				
MPPT voltage range [V _{DC}]	200-1000				
MPPT voltage range (full load) [V _{DC}]	370-800	410-800	440-800	480-800	530-800
Maximum input current [A _{DC}]	30/30				
I _{sc} PV [A _{DC}]	40/40				
MPPT tracker number	2				
Maximum input power [W]	18000	22500	25500	30000	37500
Battery input/output parameters					
Battery type	Lithium-ion				
Maximum voltage [V _{DC}]	980				
Battery rated voltage [V _{DC}]	600				
Battery voltage range [V _{DC}]	600-980				
Maximum charge power [W]	25000	25000	25000	25000	25000
Maximum discharge power [W]	13200	16500	18700	22000	25000
Maximum charge current [A _{DC}]	26.25/26.25				
Maximum discharge current [A _{DC}]	26.25/26.25				
Maximum charge power from grid to battery [W]	13200	15000	15000	15000	15000
Grid terminal input parameters					
Rated input voltage [V _{AC}]	3P+N+PE, 230/400				
Rated input frequency [Hz]	50				
Maximum continuous input current from grid to battery [A _{AC}]	19.1	21.7	21.7	21.7	21.7
Maximum continuous input current [A _{AC}]	19.1	21.7	21.7	21.7	21.7
Maximum continuous input power from grid to battery [W]	13200	15000	15000	15000	15000
Maximum continuous input active power [W]	13200	15000	15000	15000	15000
Maximum continuous input apparent power [VA]	13200	15000	15000	15000	15000
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)				
Grid terminal output parameters					
Rated output voltage [V _{AC}]	3P+N+PE, 230/400				
Rated output frequency [Hz]	50				
Rated output current [A _{AC}]	17.3	21.7	24.5	28.9	36.1
Maximum continuous output current [A _{AC}]	20.2	25.2	28.6	33.6	42.0
Rated output active power [W]	12000	15000	17000	20000	25000
Maximum output active power [W]	13200	16500	18700	22000	27500
Maximum output apparent power [VA]	13200	16500	18700	22000	27500
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)				

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Model	SUN5000-17K-MB0	SUN5000-25K-MB0
PV terminal parameters		
Maximum PV voltage [V _{DC}]	1100	
Rated voltage [V _{DC}]	600	
MPPT voltage range [V _{DC}]	200-1000	
MPPT voltage range (full load) [V _{DC}]	440-800	530-800
Maximum input current [A _{DC}]	30/30	
Isc PV [A _{DC}]	40/40	
MPPT tracker number	2	
Maximum input power [W]	25500	37500
Battery input/output parameters		
Battery type	Lithium-ion	
Maximum voltage [V _{DC}]	980	
Battery rated voltage [V _{DC}]	600	
Battery voltage range [V _{DC}]	600-980	
Maximum charge power [W]	25000	25000
Maximum discharge power [W]	18700	25000
Maximum charge current [A _{DC}]	26.25/26.25	
Maximum discharge current [A _{DC}]	26.25/26.25	
Maximum charge power from grid to battery [W]	15000	
Grid terminal input parameters		
Rated input voltage [V _{AC}]	3P+N+PE, 230/400	
Rated input frequency [Hz]	50	
Maximum continuous input current from grid to battery [A _{AC}]	21.7	
Maximum continuous input current [A _{AC}]	21.7	
Maximum continuous input power from grid to battery [W]	15000	
Maximum continuous input active power [W]	15000	
Maximum continuous input apparent power [VA]	15000	
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)	
Grid terminal output parameters		
Rated output voltage [V _{AC}]	3P+N+PE, 230/400	
Rated output frequency [Hz]	50	
Rated output current [A _{AC}]	24.5	36.1
Maximum continuous output current [A _{AC}]	28.6	42.0
Rated output active power [W]	17000	25000
Maximum output active power [W]	18700	27500
Maximum output apparent power [VA]	18700	27500
Power factor range	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)	