

Type Certificate

Applicant: Huawei Technologies Co., Ltd.

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

Longgang District, Shenzhen, 518129

P.R. China

Type of power generating unit:	Grid-tied photovoltaic inverter	SUN2000-xxKTL-M0 *
Technical data:	Nominal apparent power:	50 / 60 / 65 kW *
	Nominal active power	see nominal apparent power *
	Active power: $(\cos \varphi = 0.95; U = 0.95 U_n)$	50 / 60 / 65 kW *
	Nominal voltage:	400 / 230 V (3P+ (N) + PE) or 480 V (3P+ PE) *
	Nominal frequency:	50 Hz

Firmware version: V300R001

Grid connection BDEW guideline "Generating Plants connected to the Medium-Voltage Network" regulation:

Guideline for generating plants' connection to and parallel operation with the medium-

voltage network, 2008 and amendment up to 1/2013

Pertinent standards / DIN EN 61400-21:2008

Guidelines: Technical guidelines: FGW TG 3 Rev. 24, FGW TG 4 Rev. 8, FGW TG 8 Rev. 8

The power generating units, stated in the certificate, were tested and certified according to the technical guidelines referenced to in the grid connection regulation. The electrical characteristics fulfill the requirements of the grid connection regulation:

- Generation and control of active and reactive power
- Generating unit's reaction to system incidents (Reactive current characteristic according to TransmissionCode 2007)
- Protection on generating unit level (Note in appendix p.69) **
- Report of power quality
- Validated type model: Huawei_18-0245_0_TR4_SUN2000-xxKTL-M0_V1

The manufacturer has proven the certification of his quality management system according to ISO 9001.

- : For details see supplement of certificate.
- : A connecting terminal plate has to be installed separately if necessary.

The certificate includes the following information:

- · Technical data of the power generating units, additional components and implemented software versions
- The schematic layout of the power generating units
- Summarized information on the characteristic of the power generating units

BV project number: 18TH0225 18-024511 Certificate no.:

2018-06-06 Issued:

Certification body

Holger Schaffer

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2023-05-27



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Valid until:



Supplement of Certificate (18-0245_1)

Unit / Type	SUN2000-60KTL-M0		
Unit / Type:	SUN2000-60KTL-M0 (400Vac)	SUN2000-60KTL-M0 (480Vac)	
Maximum apparent output power [kVA] . :	66		
Nominal apparent output power [kVA]:	60		
Maximum active output power [kW]:	66		
Nominal active output power [kW]:	60		
Active power (cosφ = 0,95; U = 0,95 U _{n)} [kW]:	60		
Nominal output AC voltage [V]:	400 / 230 V (3 phases + (N) + PE)	480 V (3 phases + PE)	
Nominal frequency [Hz]:	50		

Unit / Type:	SUN2000-50KTL-M0	SUN2000-65KTL-M0
Maximum apparent output power [kVA].:	55	72
Nominal apparent output power [kVA]:	50	65
Maximum active output power [kW]:	55	72
Nominal active output power [kW]:	50	65
Active power (cosφ = 0,95; U = 0,95 U _{n)} [kW]:	50	65
Nominal output AC voltage [V]:	400 / 230 V (3 phases + (N) + PE)	480 V (3 phases + PE)
Nominal frequency [Hz]:	50	

18TH0225 6 5 5 TE LLE BV project number:

18-0245_1 Certificate no.:

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