

Type Certificate

Huawei Technologies Co., Ltd. Applicant:

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Longgang District, Shenzhen, 518129

P.R. China

Type of power generating unit:	Grid-tied photovoltaic inverter	SUN2000-105KTL-H1 *
Technical data:	Nominal apparent power:	105 kVA *
	Nominal active power	see nominal apparent power *
	Max. active power: ($\cos \varphi = 0.95$; U = 0.95 U _n)	105,8 kW *
	Nominal voltage:	800 V (3P+ PE)
	Nominal frequency:	50 Hz

Firmware version: V200R001

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 TCC High-Voltage)
- Protection on generating unit level (Note in appendix p.67) **
- Report of power quality
- Huawei_18-0625_0_TR4_SUN2000-90-105KTL_V1 Validated type model:

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: 18TH0387 Certificate no.: 18-0625 0

Issued: 2018-11-23

Certification body

Holger Schaffer

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2023-11-22



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Valid until:



Supplement of Certificate (18-0625_0)

Unit / Type::	SUN2000-90KTL-H0 SUN2000-90KTL-H1 SUN2000-90KTL-H2 SUN2000-95KTL-INH0	SUN2000-95KTL-INH1
Maximum apparent output power [kVA] . :	100 *	110 *
Nominal apparent output power [kVA]:	90	90
Maximum active output power [kW]:	100 *	110 *
Nominal active output power [kW]:	90	90
Max. active power (cosφ = 0,95; U = 0,95 U _{n)} [kW]:	91,2 **	100,3 **
Nominal output AC voltage [V]:	800 V (3 phases + PE)	
Nominal frequency [Hz]:	50	

Unit / Type:	SUN2000-100KTL-H1	SUN2000-105KTL-H1	
Maximum apparent output power [kVA].:	105 *	116 *	
Nominal apparent output power [kVA]:	100	105	
Maximum active output power [kW]:	105 *	116 *	
Nominal active output power [kW]:	100	105	
Max. active power $(\cos \varphi = 0.95; U = 0.95 U_n)$ [kW]:	99,8 **	105,8 **	
Nominal output AC voltage [V]:	800 V (3 phases + PE)		
Nominal frequency [Hz]:	50		

Note:

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^{*} The units in the series provide overload capacity (see technical data of the units above).

^{**} The stated active power is the maximum active power can be provided under the condition of $\cos \varphi = 0.95$ and U = 0.95 U_n. The output power can be limited (for details see p. 27).