

CERTIFICATE

Shenzhen Hopewind Technology Co., Ltd.

A1 Area of Building 6, Jinhaoyuan, No.1 of Yanshan Avenue,
Yanchuan Community, Songgang Sub-district, Baoan District,
Shenzhen, Guangdong Province, China

is authorized to provide the product(s) mentioned below with the mark as illustrated:



Description of product(s) (details see Annex 2):

PV Grid-interactive Inverter

It is certified by **TÜV NORD CERT GmbH** that the product(s) described above has(have) been assessed according to the certification program mentioned below and found in compliance with the requirements of below specified certification fundamental(s). This certification is based on evaluation results as documented in test report(s) referenced below and production site(s) audit results as documented in factory inspection report(s) referenced in Annex 1. This certificate is valid in conjunction with these quoted report(s).

Certification program:	P33-VA-01 Rev. 02 / 04.20	
Certification fundamental(s):	IEC 62109-1:2010; IEC 62109-2:2011	
Remark:	N/A	
Registered no.:	44 780 22 406749 - 081	
Manufacturer and factory(-ies):	See Annex 1	
Report no.:	492011984.001	Valid from: 2022-05-13
File no.:	PVP01079/22B-01	Valid until: 2027-05-12



Essen, 2022-05-13

TÜV NORD CERT GmbH
Certification Body
Balance of System (BOS) for Photovoltaics

TÜV NORD CERT GmbH

Am TÜV 1, D-45307 Essen

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Please also pay attention to the information stated overleaf.

ANNEX

Annex 1, Page 1 of 1

to Certificate registration no. 44 780 22 406749 - 081

Manufacturer:

Shenzhen Hopewind Technology Co., Ltd.

A1 Area of Building 6, Jinhaoyuan, No.1 of Yanshan Avenue, Yanchuan Community, Songgang Sub-district, Baoan District, Shenzhen, Guangdong Province, China

Factory(-ies):

Suzhou Hopewind Electric Co., LTD

555 Songjia Road, wusongjiang science and Technology Industrial Park, wuzhong Economic Development Zone, Suzhou, Jiangsu Province, China

Factory inspection report no.: 862010492.002

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

ANNEX

Annex 2, Page 1 of 5

to Certificate registration no. 44 780 22 406749 - 081

Description of product(s):

Model type(s) :	hopeSun 100KTL		
General Information:			
Type of inverter..... :	Non-Isolated	Over voltage Category (OVC) .:	DC II, AC III
Protective Class..... :	Class I	Enclosure Protection (IP) :	IP65
Operating Temperature Range [°C] :	-40 to 60	Pollution degree (PD)..... :	PD 3(external) PD 2(internal)
Weight [kg]..... :	90	Size (W x H x D) [mm]..... :	800*680*315
PV Input:			
Vmax [Vd.c.] :	1100	Isc [Ad.c.]..... :	100A/100A/100A /100A
MPP Voltage Range [Vd.c.] :	200-1000	MPP Full Power Voltage Range [Vd.c.] :	540-880
Max. Input Current [Ad.c.]..... :	65A/65A/65A/65A	Back-feed Current [A]..... :	0
MPPT tracking :	4		
AC Output:			
Rated Output Voltage [Va.c.]..... :	400/230 3P+N+PE	Rated Output Frequency [Hz] .:	50/60
Rated Output Power [kW]..... :	100	Max. Apparent Power [kVA] :	110
Max. Output Current [Aa.c.]..... :	158.8	Power Factor cosφ [λ] :	0.9 (lagging)-0.9 (leading)

ANNEX

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Model type(s)..... :	hopeSun 110KTL		
General Information:			
Type of inverter..... :	Non-Isolated	Over voltage Category (OVC) .:	DC II, AC III
Protective Class..... :	Class I	Enclosure Protection (IP)	IP65
Operating Temperature Range [°C]..... :	-40 to 60	Pollution degree (PD)..... :	PD 3(external) PD 2(internal)
Weight [kg]..... :	90	Size (W x H x D) [mm]..... :	800*680*315
PV Input:			
Vmax [Vd.c.] :	1100	Isc [Ad.c.]..... :	65A/65A/65A/65A
MPP Voltage Range [Vd.c.]..... :	200-1000	MPP Full Power Voltage Range [Vd.c.]..... :	540-880
Max. Input Current [Ad.c.]..... :	100A/100A/100A/ 100A	Back-feed Current [A]..... :	0
MPPT tracking :	4		
AC Output:			
Rated Output Voltage [Va.c.]..... :	400/230 3P+N+PE	Rated Output Frequency [Hz]..:	50/60
Rated Output Power [kW]..... :	110	Max. Apparent Power [kVA]	121
Max. Output Current [Aa.c.]..... :	174.6	Power Factor cosφ [λ]	0.9 (lagging)-0.9 (leading)

ANNEX

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Model type(s) :	hopeSun 125KTL-M		
General Information:			
Type of inverter :	Non-Isolated	Over voltage Category (OVC). :	DC II, AC III
Protective Class :	Class I	Enclosure Protection (IP)..... :	IP65
Operating Temperature Range [°C] :	-40 to 60	Pollution degree (PD) :	PD 3(external) PD 2(internal)
Weight [kg]..... :	90	Size (W x H x D) [mm] :	800*680*315
PV Input:			
Vmax [Vd.c.] :	1100	Isc [Ad.c.] :	65A/65A/65A/65A
MPP Voltage Range [Vd.c.]..... :	200-1000	MPP Full Power Voltage Range [Vd.c.] :	540-880
Max. Input Current [Ad.c.]..... :	100A/100A/100A/ 100A	Back-feed Current [A] :	0
MPPT tracking :	4		
AC Output:			
Rated Output Voltage [Va.c.]..... :	500 3P+N+PE	Rated Output Frequency [Hz] . :	50/60
Rated Output Power [kW] :	125	Max. Apparent Power [kVA].... :	137.5
Max. Output Current [Aa.c.]..... :	158.8	Power Factor cosφ [λ]..... :	0.9 (lagging)-0.9 (leading)

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to Certificate registration no. 44 780 22 406749 - 081

Model type(s) :	hopeSun 136KTL-M		
General Information:			
Type of inverter :	Non-Isolated	Over voltage Category (OVC). :	DC II, AC III
Protective Class :	Class I	Enclosure Protection (IP)..... :	IP65
Operating Temperature Range [°C] :	-40 to 60	Pollution degree (PD) :	PD 3(external) PD 2(internal)
Weight [kg] :	90	Size (W x H x D) [mm] :	800*680*315
PV Input:			
Vmax [Vd.c.] :	1100	Isc [Ad.c.] :	65A/65A/65A/65A
MPP Voltage Range [Vd.c.]..... :	250-1000	MPP Full Power Voltage Range [Vd.c.] :	540-880
Max. Input Current [Ad.c.]..... :	100A/100A/100A/ 100A	Back-feed Current [A] :	0
MPPT tracking :	4		
AC Output:			
Rated Output Voltage [Va.c.]..... :	520 3P+PE	Rated Output Frequency [Hz] . :	50/60
Rated Output Power [kW]..... :	136	Max. Apparent Power [kVA].... :	150
Max. Output Current [Aa.c.]..... :	174.6	Power Factor cosφ [λ]..... :	0.9 (lagging)-0.9 (leading)

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 3 of test report.