

CERTIFICATE

of conformity with the following European Directives

Low Voltage Directive 2014/35/EU

This certifies that below described products of the applicant:

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

comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

Product(s):	PV Grid-interactive Inverter
Model type(s):	hopeSun 100KTL, hopeSun 110KTL, hopeSun 125KTL-M, hopeSun 136KTL-M

This certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.

Certification program:	P33-VA-01 Rev. 02 / 04.20
Certification fundamental(s):	EN 62109-1:2010, EN 62109-2:2011
Registered no.:	44 799 22 406749 - 052
Report no.:	492011984.001
File no.:	PVP01079/22B-01

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

Essen, 2022-05-13

TÜV NORD CERT GmbH

Am TÜV 1, D-45307 Essen

www.tuev-nord-cert.de

prodcert@tuev-nord.de

Please also pay attention to the information stated overleaf.

ANNEX

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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.] :	250-1000	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)

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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)

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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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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.