

Certificate of Conformity

Certificate Number: CN-PVES-240564

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacturer(s) shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant: NingBo Deye Inverter Technology Co., Ltd.
No. 26 South Yongjiang Road, Daqi, Beilun, NingBo, China

Product: Hybrid Inverter

Ratings & Principle Characteristics: See appendix of Certificate of Conformity

Model: SUN-xK-SG05LP1-EU (x=3.6, 4.6, 5, 6, 7, 7.6, 8)
SUN-yK-SG05LP1-EU-AM2-P, AI-W5.1-yP1-EU-B (y=3.6, 5, 6, 7, 7.6, 8)

Brand Name<s>: 

Product Complies with: NA/EEA-NE7:2020

Certificate Issuing Office Name & Address: Intertek Testing Services Ltd. Shanghai
West Area, 2nd Floor, No. 707, Zhangyang Road
China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China
Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012

Test Report No.<s>: 2411B2151SHA-001

Additional information in Appendix.



Signature

Certification Manager: Qiao Qiao

Date: 24 December 2024



PRD N° 306B

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-240564

Ratings & Principle Characteristics:

Model		SUN-3.6K-SG05LP1-EU	SUN-4.6K-SG05LP1-EU	SUN-5K-SG05LP1-EU	SUN-6K-SG05LP1-EU
DC input side	V _{MAX} Input [Vd.c.]	500			
	Input Voltage Range [Vd.c.]	150-425			
	MPPT Full Power Voltage Range[Vd.c.]	300-425			
	Isc PV[Ad.c.]	17+17			
	Maximum DC Input Current [Ad.c.]	13+13			
	Start PV Voltage [Vdc]	125			
	Backfeed Current [A]	0			
	Overvoltage Category (OVC)	II			
Battery	Rated Input Voltage Range Vin [Vd.c.]	40-60			
	Max. input Voltage Vmax [Vd.c.]	60			
	Max. battery charge current [A]	90	120	120	135
	Max. battery discharge current [A]	90	120	120	135
	Battery Type	Lead-acid or Lithium-ion			
AC output side	Rated Output Voltage Ur [Va.c.]	L/N/PE, 230			
	Rated Output Frequency F _{NETZ} [Hz]	50			
	Rated Output Power P _E [kW]	3.6	4.6	5 (Derating to 4.6kW in Germany)	6 (Derating to 4.6kW in Germany)
	Max.Output Apparent Power[kVA]	3.96	4.6	5.5 (Derating to 4.6kVA in Germany)	6.6 (Derating to 4.6kVA in Germany)
	Rated. Output Current Ir [Aa.c.]	15.7	20	21.7 (Derating to 20A in Germany)	26.1 (Derating to 20A in Germany)
	Max. Output Current I _{max} [Aa.c.]	17.2	20	23.9 (Derating to 20A in Germany)	28.7 (Derating to 20A in Germany)
	Power Factor cosφ [λ]	-0.8 to 0.8			
	Overvoltage Category (OVC)	III			

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Grid input rating	Rated Input Voltage [Va.c.]	L/N/PE, 230			
	Rated Input Frequency [Hz]	50			
	Max input apparent power [kVA]	3.96	4.6	5.5 (Derating to 4.6kVA in Germany)	6.6 (Derating to 4.6kVA in Germany)
	Max. input current [Aa.c.]	17.2	20	23.9 (Derating to 20A in Germany)	28.7 (Derating to 20A in Germany)
GEN Port	Rated input Voltage U_r [Va.c.]	L/N/PE, 230			
	Rated input Frequency F_{NETZ} [Hz]	50			
	Rated input Power [kW]	3.6	4.6	5 (Derating to 4.6kW in Germany)	6 (Derating to 4.6kW in Germany)
	Rated. input Current I_r [Aa.c.]	15.7	20	21.7 (Derating to 20A in Germany)	26.1 (Derating to 20A in Germany)
	Overvoltage Category (OVC)	III			
System	Protective Class	I			
	Enclosure Protection (IP)	IP65			
	Operating Temperature Range [°C]	-40 to 60, >45°C Derating			
	Pollution degree (PD)	PD 3			
	Altitude [m]	2000			
	Weight [kg]	24.9			
	Dimension [W*H*D (mm)]	330*580*232			
	Type of inverter	non isolated			
	Firmware version	5385			

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Ratings & Principle Characteristics:

Model		SUN-7K-SG05LP1-EU	SUN-7.6K-SG05LP1-EU	SUN-8K-SG05LP1-EU	--
DC input side	V _{MAX} Input [Vd.c.]	500			--
	Input Voltage Range [Vd.c.]	150-425			--
	MPPT Full Power Voltage Range[Vd.c.]	200-425			--
	Isc PV[Ad.c.]	34+34			--
	Maximum DC Input Current [Ad.c.]	26+26			--
	Start PV Voltage [Vdc]	125			--
	Backfeed Current [A]	0			--
	Overvoltage Category (OVC)	II			--
Battery	Rated Input Voltage Range Vin [Vd.c.]	40-60			--
	Max. input Voltage Vmax [Vd.c.]	60			--
	Max. battery charge current [A]	175	190	190	--
	Max. battery discharge current [A]	175	190	190	--
	Battery Type	Lead-acid or Lithium-ion			--
AC output side	Rated Output Voltage Ur [Va.c.]	L/N/PE, 230			--
	Rated Output Frequency F _{NETZ} [Hz]	50			--
	Rated Output Power P _E [kW]	7 (Derating to 4.6kW in Germany)	7.6 (Derating to 4.6kW in Germany)	8 (Derating to 4.6kW in Germany)	--
	Max.Output Apparent Power[kVA]	7.7 (Derating to 4.6kVA in Germany)	8.36 (Derating to 4.6kVA in Germany)	8.8 (Derating to 4.6kVA in Germany)	--
	Rated. Output Current Ir [Aa.c.]	30.5 (Derating to 20A in Germany)	33.0 (Derating to 20A in Germany)	34.8 (Derating to 20A in Germany)	--
	Max. Output Current I _{max} [Aa.c.]	33.5 (Derating to 20A in Germany)	36.3 (Derating to 20A in Germany)	38.3 (Derating to 20A in Germany)	--
	Power Factor cosφ [λ]	-0.8 to 0.8			--
	Overvoltage Category (OVC)	III			--

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Grid input rating	Rated Input Voltage [Va.c.]	L/N/PE, 230			--
	Rated Input Frequency [Hz]	50			--
	Max input apparent power [kVA]	7.7 (Derating to 4.6kVA in Germany)	8.36 (Derating to 4.6kVA in Germany)	8.8 (Derating to 4.6kVA in Germany)	--
	Max. input current [Aa.c.]	33.5 (Derating to 20A in Germany)	36.3 (Derating to 20A in Germany)	38.3 (Derating to 20A in Germany)	--
GEN Port	Rated input Voltage U_r [Va.c.]	L/N/PE, 230			--
	Rated input Frequency F_{NETZ} [Hz]	50			--
	Rated input Power [kW]	7 (Derating to 4.6kW in Germany)	7.6 (Derating to 4.6kW in Germany)	8 (Derating to 4.6kW in Germany)	--
	Rated. input Current I_r [Aa.c.]	30.5 (Derating to 20A in Germany)	33.0 (Derating to 20A in Germany)	34.8 (Derating to 20A in Germany)	--
	Overvoltage Category (OVC)	III			--
System	Protective Class	I			--
	Enclosure Protection (IP)	IP65			--
	Operating Temperature Range [°C]	-40 to 60, >45°C Derating			--
	Pollution degree (PD)	PD 3			--
	Altitude [m]	2000			--
	Weight [kg]	24.9			--
	Dimension [W*H*D (mm)]	330*580*232			--
	Type of inverter	non isolated			--
	Firmware version	5385			--

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APPENDIX: Certificate of Conformity

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Ratings & Principle Characteristics:

Model		SUN-3.6K-SG05LP1-EU-AM2-P	SUN-5K-SG05LP1-EU-AM2-P	SUN-6K-SG05LP1-EU-AM2-P
DC input side	V _{MAX} Input [Vd.c.]	500		
	Input Voltage Range [Vd.c.]	150-425		
	MPPT Full Power Voltage Range[Vd.c.]	300-425		
	Isc PV[Ad.c.]	27+27		
	Maximum DC Input Current [Ad.c.]	18+18		
	Start PV Voltage [Vdc]	125		
	Backfeed Current [A]	0		
	Overvoltage Category (OVC)	II		
Battery	Rated Input Voltage Range Vin [Vd.c.]	40-60		
	Max. input Voltage Vmax [Vd.c.]	60		
	Max. battery charge current [A]	90	120	135
	Max. battery discharge current [A]	90	120	135
	Battery Type	Lead-acid or Lithium-ion		
AC output side	Rated Output Voltage Ur [Va.c.]	L/N/PE, 230		
	Rated Output Frequency F _{NETZ} [Hz]	50		
	Rated Output Power P _E [kW]	3.6	5 (Derating to 4.6kW in Germany)	6 (Derating to 4.6kW in Germany)
	Max.Output Apparent Power[kVA]	3.96	5.5 (Derating to 4.6kVA in Germany)	6.6 (Derating to 4.6kVA in Germany)
	Rated. Output Current Ir [Aa.c.]	15.7	21.7 (Derating to 20A in Germany)	26.1 (Derating to 20A in Germany)
	Max. Output Current I _{max} [Aa.c.]	17.2	23.9 (Derating to 20A in Germany)	28.7 (Derating to 20A in Germany)
	Power Factor cosφ [λ]	-0.8 to 0.8		
	Overvoltage Category (OVC)	III		

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Grid input rating	Rated Input Voltage [Va.c.]	L/N/PE, 230		
	Rated Input Frequency [Hz]	50		
	Max input apparent power [kVA]	3.96	5.5 (Derating to 4.6kVA in Germany)	6.6 (Derating to 4.6kVA in Germany)
	Max. input current [Aa.c.]	17.2	23.9 (Derating to 20A in Germany)	28.7 (Derating to 20A in Germany)
GEN Port	Rated input Voltage Ur [Va.c.]	L/N/PE, 230		
	Rated input Frequency F _{NETZ} [Hz]	50		
	Rated input Power [kW]	3.6	5 (Derating to 4.6kW in Germany)	6 (Derating to 4.6kW in Germany)
	Rated. input Current Ir [Aa.c.]	15.7	21.7 (Derating to 20A in Germany)	26.1 (Derating to 20A in Germany)
	Overvoltage Category (OVC)	III		
System	Protective Class	I		
	Enclosure Protection (IP)	IP65		
	Operating Temperature Range [°C]	-40 to 60, >45°C Derating		
	Pollution degree (PD)	PD 3		
	Altitude [m]	2000		
	Weight [kg]	24.9		
	Dimension [W*H*D (mm)]	330*580*232		
	Type of inverter	non isolated		
	Firmware version	5385		

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Ratings & Principle Characteristics:

Model		SUN-7K-SG05LP1-EU-AM2-P	SUN-7.6K-SG05LP1-EU-AM2-P	SUN-8K-SG05LP1-EU-AM2-P
DC input side	V _{MAX} Input [Vd.c.]	500		
	Input Voltage Range [Vd.c.]	150-425		
	MPPT Full Power Voltage Range[Vd.c.]	200-425		
	Isc PV[Ad.c.]	48+48		
	Maximum DC Input Current [Ad.c.]	32+32		
	Start PV Voltage [Vdc]	125		
	Backfeed Current [A]	0		
	Overvoltage Category (OVC)	II		
Battery	Rated Input Voltage Range Vin [Vd.c.]	40-60		
	Max. input Voltage Vmax [Vd.c.]	60		
	Max. battery charge current [A]	175	190	190
	Max. battery discharge current [A]	175	190	190
	Battery Type	Lead-acid or Lithium-ion		
AC output side	Rated Output Voltage Ur [Va.c.]	L/N/PE, 230		
	Rated Output Frequency F _{NETZ} [Hz]	50		
	Rated Output Power P _E [kW]	7 (Derating to 4.6kW in Germany)	7.6 (Derating to 4.6kW in Germany)	8 (Derating to 4.6kW in Germany)
	Max.Output Apparent Power[kVA]	7.7 (Derating to 4.6kVA in Germany)	8.36 (Derating to 4.6kVA in Germany)	8.8 (Derating to 4.6kVA in Germany)
	Rated. Output Current Ir [Aa.c.]	30.5 (Derating to 20A in Germany)	33.0 (Derating to 20A in Germany)	34.8 (Derating to 20A in Germany)
	Max. Output Current Imax [Aa.c.]	33.5 (Derating to 20A in Germany)	36.3 (Derating to 20A in Germany)	38.3 (Derating to 20A in Germany)
	Power Factor cosφ [λ]	-0.8 to 0.8		
	Overvoltage Category (OVC)	III		

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Grid input rating	Rated Input Voltage [Va.c.]	L/N/PE,230		
	Rated Input Frequency [Hz]	50		
	Max input apparent power [kVA]	7.7 (Derating to 4.6kVA in Germany)	8.36 (Derating to 4.6kVA in Germany)	8.8 (Derating to 4.6kVA in Germany)
	Max. input current [Aa.c.]	33.5 (Derating to 20A in Germany)	36.3 (Derating to 20A in Germany)	38.3 (Derating to 20A in Germany)
GEN Port	Rated input Voltage U_r [Va.c.]	L/N/PE, 230		
	Rated input Frequency F_{NETZ} [Hz]	50		
	Rated input Power [kW]	7 (Derating to 4.6kW in Germany)	7.6 (Derating to 4.6kW in Germany)	8 (Derating to 4.6kW in Germany)
	Rated. input Current I_r [Aa.c.]	30.5 (Derating to 20A in Germany)	33.0 (Derating to 20A in Germany)	34.8 (Derating to 20A in Germany)
	Overvoltage Category (OVC)	III		
System	Protective Class	I		
	Enclosure Protection (IP)	IP65		
	Operating Temperature Range [°C]	-40 to 60, >45°C Derating		
	Pollution degree (PD)	PD 3		
	Altitude [m]	2000		
	Weight [kg]	24.9		
	Dimension [W*H*D (mm)]	330*580*232		
	Type of inverter	non isolated		
	Firmware version	5385		

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Ratings & Principle Characteristics:

Model		AI-W5.1-3.6P1-EU-B	AI-W5.1-5P1-EU-B	AI-W5.1-6P1-EU-B
DC input side	V _{MAX} Input [Vd.c.]	500		
	Input Voltage Range [Vd.c.]	150-425		
	MPPT Full Power Voltage Range[Vd.c.]	300-425		
	I _{sc} PV[Ad.c.]	27+27		
	Maximum DC Input Current [Ad.c.]	18+18		
	Start PV Voltage [Vdc]	125		
	Backfeed Current [A]	0		
	Overvoltage Category (OVC)	II		
Battery	Rated Input Voltage Range V _{in} [Vd.c.]	40-60		
	Max. input Voltage V _{max} [Vd.c.]	60		
	Max. battery charge current [A]	90	120	135
	Max. battery discharge current [A]	90	120	135
	Battery Type	Lithium-ion		
AC output side	Rated Output Voltage U _r [Va.c.]	L/N/PE, 230		
	Rated Output Frequency F _{NETZ} [Hz]	50		
	Rated Output Power P _E [kW]	3.6	5 (Derating to 4.6kW in Germany)	6 (Derating to 4.6kW in Germany)
	Max.Output Apparent Power[kVA]	3.96	5.5 (Derating to 4.6kVA in Germany)	6.6 (Derating to 4.6kVA in Germany)
	Rated. Output Current I _r [Aa.c.]	15.7	21.7 (Derating to 20A in Germany)	26.1 (Derating to 20A in Germany)
	Max. Output Current I _{max} [Aa.c.]	17.2	23.9 (Derating to 20A in Germany)	28.7 (Derating to 20A in Germany)
	Power Factor cosφ [λ]	-0.8 to 0.8		
	Overvoltage Category (OVC)	III		

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Grid input rating	Rated Input Voltage [Va.c.]	L/N/PE, 230		
	Rated Input Frequency [Hz]	50		
	Max input apparent power [kVA]	3.96	5.5 (Derating to 4.6kVA in Germany)	6.6 (Derating to 4.6kVA in Germany)
	Max. input current [Aa.c.]	17.2	23.9 (Derating to 20A in Germany)	28.7 (Derating to 20A in Germany)
GEN Port	Rated input Voltage U_r [Va.c.]	L/N/PE, 230		
	Rated input Frequency F_{NETZ} [Hz]	50		
	Rated input Power [kW]	3.6	5 (Derating to 4.6kW in Germany)	6 (Derating to 4.6kW in Germany)
	Rated. input Current I_r [Aa.c.]	15.7	21.7 (Derating to 20A in Germany)	26.1 (Derating to 20A in Germany)
	Overvoltage Category (OVC)	III		
System	Protective Class	I		
	Enclosure Protection (IP)	IP65		
	Operating Temperature Range [°C]	-40 to 60, >45°C Derating		
	Pollution degree (PD)	PD 3		
	Altitude [m]	2000		
	Weight [kg]	31.6		
	Dimension [W*H*D (mm)]	720*399.2*256		
	Type of inverter	non isolated		
	Firmware version	5385		

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Ratings & Principle Characteristics:

Model		AI-W5.1-7P1-EU-B	AI-W5.1-7.6P1-EU-B	AI-W5.1-8P1-EU-B
DC input side	V _{MAX} Input [Vd.c.]	500		
	Input Voltage Range [Vd.c.]	150-425		
	MPPT Full Power Voltage Range[Vd.c.]	200-425		
	I _{sc} PV[Ad.c.]	48+48		
	Maximum DC Input Current [Ad.c.]	32+32		
	Start PV Voltage [Vdc]	125		
	Backfeed Current [A]	0		
	Overvoltage Category (OVC)	II		
Battery	Rated Input Voltage Range V _{in} [Vd.c.]	40-60		
	Max. input Voltage V _{max} [Vd.c.]	60		
	Max. battery charge current [A]	175	190	190
	Max. battery discharge current [A]	175	190	190
	Battery Type	Lithium-ion		
AC output side	Rated Output Voltage U _r [Va.c.]	L/N/PE, 230		
	Rated Output Frequency F _{NETZ} [Hz]	50		
	Rated Output Power P _E [kW]	7 (Derating to 4.6kW in Germany)	7.6 (Derating to 4.6kW in Germany)	8 (Derating to 4.6kW in Germany)
	Max.Output Apparent Power[kVA]	7.7 (Derating to 4.6kVA in Germany)	8.36 (Derating to 4.6kVA in Germany)	8.8 (Derating to 4.6kVA in Germany)
	Rated. Output Current I _r [Aa.c.]	30.5 (Derating to 20A in Germany)	33.0 (Derating to 20A in Germany)	34.8 (Derating to 20A in Germany)
	Max. Output Current I _{max} [Aa.c.]	33.5 (Derating to 20A in Germany)	36.3 (Derating to 20A in Germany)	38.3 (Derating to 20A in Germany)
	Power Factor cosφ [λ]	-0.8 to 0.8		
	Overvoltage Category (OVC)	III		

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Grid input rating	Rated Input Voltage [Va.c.]	L/N/PE, 230		
	Rated Input Frequency [Hz]	50		
	Max input apparent power [kVA]	7.7 (Derating to 4.6kVA in Germany)	8.36 (Derating to 4.6kVA in Germany)	8.8 (Derating to 4.6kVA in Germany)
	Max. input current [Aa.c.]	33.5 (Derating to 20A in Germany)	36.3 (Derating to 20A in Germany)	38.3 (Derating to 20A in Germany)
GEN Port	Rated input Voltage Ur [Va.c.]	L/N/PE, 230		
	Rated input Frequency F _{NETZ} [Hz]	50		
	Rated input Power [kW]	7 (Derating to 4.6kW in Germany)	7.6 (Derating to 4.6kW in Germany)	8 (Derating to 4.6kW in Germany)
	Rated. input Current Ir [Aa.c.]	30.5 (Derating to 20A in Germany)	33.0 (Derating to 20A in Germany)	34.8 (Derating to 20A in Germany)
	Overvoltage Category (OVC)	III		
System	Protective Class	I		
	Enclosure Protection (IP)	IP65		
	Operating Temperature Range [°C]	-40 to 60, >45°C Derating		
	Pollution degree (PD)	PD 3		
	Altitude [m]	2000		
	Weight [kg]	31.6		
	Dimension [W*H*D (mm)]	720*399.2*256		
	Type of inverter	non isolated		
	Firmware version	5385		

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