


Certificate of Conformity

Certificate Number: CN-PVES-240098R1

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-3K-SG05LP3-EU-SM2, SUN-4K-SG05LP3-EU-SM2, SUN-5K-SG05LP3-EU-SM2, SUN-6K-SG05LP3-EU-SM2, SUN-8K-SG05LP3-EU-SM2, SUN-10K-SG05LP3-EU-SM2, SUN-12K-SG05LP3-EU-SM2
Brand Name<s>:	
Product Complies with:	IEC 61727:2004 IEC 62116:2014
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2 nd 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>:	2311A0686SHA-001, 2311A0686SHA-001 Amendment 1

Additional information in Appendix.

Replaces certificate CN-PVES-240098 dated 25 March 2024

Signature

Certification Manager: Qiao Qiao

Date: 10 July 2025



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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-240098R1

Ratings & Principle Characteristics:

Model	SUN-3K-SG05LP3-EU-SM2	SUN-4K-SG05LP3-EU-SM2	SUN-5K-SG05LP3-EU-SM2	SUN-6K-SG05LP3-EU-SM2	SUN-8K-SG05LP3-EU-SM2	SUN-10K-SG05LP3-EU-SM2	SUN-12K-SG05LP3-EU-SM2
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range(V)	40-60V						
Max.Charging Current(A)	70A	95A	120A	135A	190A	210A	240A
Max.Discharging Current(A)	70A	95A	120A	135A	190A	210A	240A
PV String Input Data							
Max. PV Input Power(W)	4800W	6400W	8000W	9600W	12800W	16000W	19200W
PV Input Voltage Range(V)	160V-800V						
MPPT Voltage Range(V)	200V-650V						
Full Load MPPT Voltage Range(V)	250V-650V					350V-650V	
Start-up Voltage(V)	160V						
Max. Operating PV Input Current(A)	20A+20A					26+26A	26+26A
Max. Input Short-Circuit Current(A)	30A+30A					39+39A	39+39A
No. of MPP Trackers	2						
No. of Strings MPP Tracker	1+1					2+2	

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Model	SUN-3K-SG05LP3-EU-SM2	SUN-4K-SG05LP3-EU-SM2	SUN-5K-SG05LP3-EU-SM2	SUN-6K-SG05LP3-EU-SM2	SUN-8K-SG05LP3-EU-SM2	SUN-10K-SG05LP3-EU-SM2	SUN-12K-SG05LP3-EU-SM2
AC Input/Output Data							
Rated AC Input/Output Active Power(W)	3000W	4000W	5000W	6000W	8000W	10000W	12000W
Max. AC Input/Output Apparent Power(VA)	3300VA	4400VA	5500VA	6600VA	8800VA	11000VA	13200VA
Peak Power(off grid)(W)	2 times of rated power, 10S						
Rated AC Input/Output Current(A)	4.6/4.4	6.1/5.8	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	18.2/17.4
Max. AC Input/Output Current(A)	5/4.8	6.7/6.4	8.4/8	10/9.6	13.4/12.8	16.7/16	20/19.2
Max. Continuous AC Passthrough (grid to load)(A)	45A						
Rated Input/Output Grid Frequency /Voltage Range	50/60Hz; 3L/N/PE 220/380, 230/400Vac						
Grid Type	Three Phase						
Total Harmonic Distortion (THD)	<3% (of nominal power)						
DC current injection	<0.5% In						
Others							
Operating Temperature Range (°C)	-40°C to 60°C, >45°C Derating						
Cooling	Intelligent Air Cooling						
Noise(dB)	≤ 55 dB						
Weight (kg)	35.2						
Protection Degree	IP65						
Permissible Altitude	3000m						
Overvoltage category	OVC III (AC main), OVC II (DC)						
Firmware Version	1144						

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