

# Certificate of Conformity (COC)



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

Date of Original Issue : 2024-03-26

Date of Last Revision : 2025-06-18

Date of Expiry : 2027-03-25

Certificate Number : PCS-24-1021/M1

Product : Hybrid Inverter

Ratings : See appendix on page 2 to page 7

Brand/Trademark : 

Model : See appendix on page 2 to page 7

Test Laboratory : SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Testing Report : GZES230901617301 Amendment 02, GZES230901617302 Amendment 02,  
GZES230901617303 Amendment 02 and GZES230901617304 Amendment 02

Test Standard : IEC 62116:2014, IEC 61727:2004, IEC 61683:1999, IEC 60068-2-1:2007,  
IEC 60068-2-2:2007, IEC 60068-2-14:2009 and IEC 60068-2-30:2005



This is to certify that the product has been tested and was found to comply with the requirements of the standard(s).  
The above-mentioned product is certified according to the requirements of ISO/IEC 17065:2012.

This certificate superseded the certificate number PCS-24-1021 dated 2024-03-26 due to additional and deletion of models and firmware version update. For further details, please refer to test reports.

Christopher Hee  
Certification Officer

SGS Testing & Control Services Singapore Pte Ltd  
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# APPENDIX

Certificate Number: PCS-24-1021/M1

Product Model	SUN-3.6K-SG05LP1-EU	SUN-5K-SG05LP1-EU	SUN-6K-SG05LP1-EU	SUN-7K-SG05LP1-EU	SUN-7.6K-SG05LP1-EU	SUN-8K-SG05LP1-EU
PV Input						
Max.DC Input Power (W)	5760	8000	9600	11200	12160	12800
Max.DC Voltage (V)	500					
Start-up Voltage (V)	125					
Rated input voltage (V)	370					
MPPT Voltage Range (V)	150~425					
Full Load MPPT Voltage Range (V)	300~425			200~425		
Max. Operating PV Input Current (A)	13+13			26+26		
Max. Input Short-Circuit Current (A)	17+17			34+34		
No. of MPP Trackers/No. of Strings MPP Tracker	2/1+1			2/2+2		
Battery Input						
Battery Type	Lead-acid or Lithium-ion					
Battery Voltage Range (V)	40-60					
Max. Charging Current (A)	90	120	135	175	190	190
Max. Discharging Current (A)	90	120	135	175	190	190
AC Output						
Rated AC Output Active Power (W)	3600	5000	6000	7000	7600	8000
Max. AC Output Apparent Power (VA)	3960	5500	6600	7700	8360	8800
Max AC Output Current (A)	17.2	23.9	28.7	33.5	36.3	38.3
Rated AC Output Current (A)	15.7	21.7	26.1	30.5	33	34.8
Rated Output Voltage (V)	230					
Nominal Frequency (Hz)	50					
Power Factor Adjustment Range	0.8 leading...0.8 lagging					
Topology	Non-Isolated					
Operating temperature range	-40 to +60 °C (>45 °C Derating)					
Ingress Protection(IP) Rating	IP65					



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Product Model	SUN-7K-SG05LP1-EU-SM2	SUN-7.6K-SG05LP1-EU-SM2	SUN-8K-SG05LP1-EU-SM2
PV Input			
Max.DC Input Power (W)	11200	12160	12800
Max.DC Voltage (V)	500		
Start-up input voltage (V)	125		
Rated input voltage (V)	370		
MPPT Voltage Range (V)	150~425		
Full load DC voltage range (V)	200~425		
Max. Operating PV Input Current(A)	26+26		
Max. short current (A)	34+34		
No. of MPP Trackers/No. of Strings MPP Tracker	2/2+2		
Battery Input			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range (V)	40-60		
Max. Charging Current (A)	175	190	190
Max. Discharging Current (A)	175	190	190
AC Output			
Rated AC Output Active Power (W)	7000	7600	8000
Max. AC Output Apparent Power (VA)	7700	8360	8800
Max AC Output Current (A)	33.5	36.4	38.3
Rated AC Output Current (A)	30.5	33.1	34.8
Rated Output Voltage (V)	230		
Nominal Frequency (Hz)	50		
Power Factor Adjustment Range	0.8 leading...0.8 lagging		
Topology	Non-Isolated		
Operating temperature range	-40 to +60 °C (>45 °C Derating)		
Ingress Protection(IP) Rating	IP65		



Product Model	SUN-3.6K-SG05LP1-EU-SM2-P	SUN-5K-SG05LP1-EU-SM2-P	SUN-6K-SG05LP1-EU-SM2-P	SUN-7K-SG05LP1-EU-SM2-P	SUN-7.6K-SG05LP1-EU-SM2-P	SUN-8K-SG05LP1-EU-SM2-P
PV Input						
Max.DC Input Power (W)	5760	8000	9600	11200	12160	12800
Max.DC Voltage (V)	500					
Start-up input voltage (V)	125					
Rated input voltage (V)	370					
MPPT Voltage Range (V)	150~425					
Full load DC voltage range (V)	300~425			200~425		
Max. Operating PV Input Current(A)	18+18			32+32		
Max. short current (A)	27+27			48+48		
No. of MPP Trackers/No. of Strings MPP Tracker	2/1+1			2/2+2		
Battery Input						
Battery Type	Lead-acid or Lithium-ion					
Battery Voltage Range (V)	40-60					
Max. Charging Current (A)	90	120	135	175	190	190
Max. Discharging Current (A)	90	120	135	175	190	190
AC Output						
Rated AC Output Active Power (W)	3600	5000	6000	7000	7600	8000
Max. AC Output Apparent Power (VA)	3960	5500	6600	7700	8360	8800
Max AC Output Current (A)	17.3	24.0	28.7	33.5	36.4	38.3
Rated AC Output Current (A)	15.7	21.8	26.1	30.5	33.1	34.8
Rated Output Voltage (V)	230					
Nominal Frequency (Hz)	50					
Power Factor Adjustment Range	0.8 leading...0.8 lagging					
Topology	Non-Isolated					
Operating temperature range	-40 to +60 °C (>45 °C Derating)					
Ingress Protection(IP) Rating	IP65					





Product Model	SUN-3.6K-SG05LP1-EU-AM2-P	SUN-5K-SG05LP1-EU-AM2-P	SUN-6K-SG05LP1-EU-AM2-P	SUN-7K-SG05LP1-EU-AM2-P	SUN-7.6K-SG05LP1-EU-AM2-P	SUN-8K-SG05LP1-EU-AM2-P
PV Input						
Max.DC Input Power (W)	5760	8000	9600	11200	12160	12800
Max.DC Voltage (V)	500					
Start-up input voltage (V)	125					
Rated input voltage (V)	370					
MPPT Voltage Range (V)	150~425					
Full load DC voltage range (V)	300~425			200~425		
Max. Operating PV Input Current(A)	18+18			32+32		
Max. short current (A)	27+27			48+48		
No. of MPP Trackers/No. of Strings MPP Tracker	2/1+1			2/2+2		
Battery Input						
Battery Type	Lead-acid or Lithium-ion					
Battery Voltage Range (V)	40-60					
Max. Charging Current (A)	90	120	135	175	190	190
Max. Discharging Current (A)	90	120	135	175	190	190
AC Output						
Rated AC Output Active Power (W)	3600	5000	6000	7000	7600	8000
Max. AC Output Apparent Power (VA)	3960	5500	6600	7700	8360	8800
Max AC Output Current (A)	17.2	23.9	28.7	33.5	36.3	38.3
Rated AC Output Current (A)	15.7	21.7	26.1	30.5	33.0	34.8
Rated Output Voltage (V)	230					
Nominal Frequency (Hz)	50					
Power Factor Adjustment Range	0.8 leading...0.8 lagging					
Topology	Non-Isolated					
Operating temperature range	-40 to +60 °C (>45 °C Derating)					
Ingress Protection(IP) Rating	IP65					



Product Model	AI-W5.1-3.6P1-EU-B	AI-W5.1-5P1-EU-B	AI-W5.1-6P1-EU-B	AI-W5.1-7P1-EU-B	AI-W5.1-7.6P1-EU-B	AI-W5.1-8P1-EU-B
PV Input						
Max.DC Input Power (W)	5760	8000	9600	11200	12160	12800
Max.DC Voltage (V)	500					
Start-up input voltage (V)	125					
Rated input voltage (V)	370					
MPPT Voltage Range (V)	150~425					
Full load DC voltage range (V)	300~425			200~425		
Max. Operating PV Input Current(A)	18+18			32+32		
Max. short current (A)	27+27			48+48		
No. of MPP Trackers/No. of Strings MPP Tracker	2/1+1			2/2+2		
Battery Input						
Battery Type	Lead-acid or Lithium-ion					
Battery Voltage Range (V)	40-60					
Max. Charging Current (A)	90	120	135	175	190	190
Max. Discharging Current (A)	90	120	135	175	190	190
AC Output						
Rated AC Output Active Power (W)	3600	5000	6000	7000	7600	8000
Max. AC Output Apparent Power (VA)	3960	5500	6600	7700	8360	8800
Max AC Output Current (A)	17.2	23.9	28.7	33.5	36.3	38.3
Rated AC Output Current (A)	15.7	21.7	26.1	30.5	33.0	34.8
Rated Output Voltage (V)	230					
Nominal Frequency (Hz)	50					
Power Factor Adjustment Range	0.8 leading...0.8 lagging					
Topology	Non-Isolated					
Operating temperature range	-40 to +60 °C (>45 °C Derating)					
Ingress Protection(IP) Rating	IP65					





Product Model	SUN-10K-SG05LP1-EU	SUN-10K-SG05LP1-EU-SM2	SUN-10K-SG05LP1-EU-SM2-P	AI-W5.1-10P1-EU-B	SUN-10K-SG05LP1-EU-AM2-P
<b>PV Input</b>					
Max.DC Input Power (W)	16000	16000	16000	16000	16000
Max.DC Voltage (V)			500		
Start-up Voltage (V)			125		
Rated input voltage (V)			370		
MPPT Voltage Range (V)			150~425		
Full Load MPPT Voltage Range (V)	250~425	250~425	250~425	250~425	250~425
Max. Operating PV Input Current (A)	26+26	26+26	32+32	32+32	32+32
Max. Input Short-Circuit Current (A)	34+34	34+34	48+48	48+48	48+48
No. of MPP Trackers/No. of Strings MPP Tracker	2/2+2	2/2+2	2/2+2	2/2+2	2/2+2
<b>Battery Input</b>					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	40-60				
Max. Charging Current (A)	210	210	210	210	210
Max. Discharging Current (A)	210	210	210	210	210
<b>AC Output</b>					
Rated AC Output Active Power (W)	10000	10000	10000	10000	10000
Max. AC Output Apparent Power (VA)	11000	11000	11000	11000	11000
Max AC Output Current (A)	47.9	47.9	47.9	47.9	47.9
Rated AC Output Current (A)	43.5	43.5	43.5	43.5	43.5
Rated Output Voltage (V)	230				
Nominal Frequency (Hz)	50				
Power Factor Adjustment Range	0.8 leading...0.8 lagging				
Topology	Non-Isolated				
Operating temperature range	-40 to +60 °C (>45 °C Derating)				
Ingress Protection(IP) Rating	IP65				

