

# 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 : 2024-07-22

Date of Last Revision : 2025-07-20

Date of Expiry : 2027-07-21

Certificate Number : PCS-24-1110/M1

Product : Hybrid Inverter

Ratings : See appendix on page 2 and page 3

Brand/Trademark : 

Model(s) : See appendix on page 2 and page 3

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

Testing Report : GZES240701298201 Amendment 01 and GZES240701298202 Amendment 01

Test Standard : 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This certificate superseded the certificate number PCS-24-1110 dated 2024-07-22 due to update input parameters of listed models.

Christopher Hee  
Certification Officer

SGS Testing & Control Services Singapore Pte Ltd  
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Product Model	SUN-3K-SG05LP3-EU-SM2	SUN-4K-SG05LP3-EU-SM2	SUN-5K-SG05LP3-EU-SM2	SUN-6K-SG05LP3-EU-SM2
Input (DC)				
Max. PV Array Power (W)	4800	6400	8000	9600
Max. PV Input Voltage (V)	800			
Start-up Voltage (V)	160			
PV Input Voltage Range (V)	160-800			
MPPT Operating Range (V)	200-650			
Full Load MPPT Voltage Range (V)	250-650			
Rated Input Voltage (V)	550			
Max. Operating PV Input Current (A)	20+20			
Max. Input Short-Circuit Current (A)	30+30			
No. of MPP Trackers/No. of Strings per MPP Tracker	2/1+1			
Battery				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	70	95	120	135
Max. Discharging Current (A)	70	95	120	135
Number of Battery Input	1			
Output (AC)				
Rated Active Power (W)	3000	4000	5000	6000
Max. Apparent Power (VA)	3300	4400	5500	6600
Rated AC Output Current (A)	4.4	5.8	7.3	8.7
Max. Output Current (A)	4.8	6.4	8.0	9.6
Nominal Grid Voltage (V)	230/400 [3L/N/PE]			
Nominal Frequency (Hz)	50			
Power Factor	0.8 leading - 0.8 lagging			
General Data				
Topology	Non-isolated			
Operating Temperature Range	-40 °C ~ +60 °C, > 45 °C Derating			
Degree of Protection	IP65			
Protective Level	Class I			
Type of Cooling	Intelligent Air Cooling			





Product Model	SUN-8K-SG05LP3-EU-SM2	SUN-10K-SG05LP3-EU-SM2	SUN-12K-SG05LP3-EU-SM2
Input (DC)			
Max. PV Array Power (W)	12800	16000	19200
Max. PV Input Voltage (V)	800		
Start-up Voltage (V)	160		
PV Input Voltage Range (V)	160-800		
MPPT Operating Range (V)	200-650		
Full Load MPPT Voltage Range (V)	250-650	350-650	
Rated Input Voltage (V)	550		
Max. Operating PV Input Current (A)	20+20	26+26	
Max. Input Short-Circuit Current (A)	30+30	39+39	
No. of MPP Trackers/No. of Strings per MPP Tracker	2/1+1	2/2+2	
Battery			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range (V)	40-60		
Max. Charging Current (A)	190	210	240
Max. Discharging Current (A)	190	210	240
Number of Battery Input	1		
Output (AC)			
Rated Active Power (W)	8000	10000	12000
Max. Apparent Power (VA)	8800	11000	13200
Rated AC Output Current (A)	11.6	14.5	17.4
Max. Output Current (A)	12.8	16.0	19.2
Nominal Grid Voltage (V)	230/400 [3L/N/PE]		
Nominal Frequency (Hz)	50		
Power Factor	0.8 leading - 0.8 lagging		
General Data			
Topology	Non-isolated		
Operating Temperature Range	-40 °C ~ +60 °C,> 45 °C Derating		
Degree of Protection	IP65		
Protective Level	Class I		
Type of Cooling	Intelligent Air Cooling		

