

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 : 2024-03-04

Date of Last Revision : 2025-04-20

Date of Expiry : 2027-03-03

Certificate Number : PCS-24-1014/M1

Product : Grid-connected PV Inverter

Ratings : See appendix on page 2 to page 3

Brand/Trademark : 

Model(s) : SUN-40K- G04, SUN-45K- G04, SUN-50K- G04, SUN-40K- G04P3-EU-CM3,
SUN-45K- G04P3-EU-CM3, SUN-50K- G04P3-EU-CM4

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

Testing Report : GZES220300425101 Amendment 01, GZES220300425102 Amendment 01,
GZES220300425103 Amendment 01 and GZES220300425104 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This certificate superseded the certificate number PCS-24-1014 dated 2024-03-04 due to add new models, update electrical schemes and update rating label.

Christopher Hee
Certification Officer



SGS Testing & Control Services Singapore Pte Ltd
30 Boon Lay Way #03-01 Singapore 609957



The use of this Certificate is subjected to the General Conditions for Certification Services accessible at <https://www.sgs.com/en/terms-and-conditions> and Certification Agreement for SGS Product Certification Scheme (PCS). Any unauthorised alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. This Certificate is part of a full report and should be read in conjunction with it. This Certificate cannot be reproduced except in full, without prior approval of the Company. This Certificate remains the property of SGS Testing & Control Services Singapore Pte Ltd and shall be returned upon request.

Model	SUN-40K- G04	SUN-45K- G04	SUN-50K- G04
PV Input			
Recommended Max. PV input power(kW)	52	58.5	65
Max. input voltage(V)	1100		
Start-up operating voltage(V)	250		
Rated input voltage(V)	600		
MPPT operating voltage range(V)	200~1000		
Full power MPPT voltage range (V)	450~850		
Max. input current(A)	40+40+40	40+40+40	40+40+40+40
Max. short current(A)	60+60+60	60+60+60	60+60+60+60
AC Output			
Nominal grid voltage(V)	3L/N/PE 230/400V		
Nominal grid frequency (Hz)	50/60		
Rated AC power(kW)	40	45	50
Max. AC power(kW)	44	49.5	55
Rated AC current(A)	58	65.2	72.5
Max. AC current(A)	63.8	71.7	79.7
Output power factor	0.8 leading~0.8 lagging		
General Data			
Operating temperature range	-25 ~ +60 °C		
Protection degree	IP65		
Protective class	Class I		
Cooling method	Intelligent air cooling		
Topology	Non-isolated		



Model	SUN-40K- G04P3-EU-CM3	SUN-45K- G04P3-EU-CM3	SUN-50K- G04P3-EU-CM4
PV Input			
Recommended Max. PV input power(kW)	52	58.5	65
Max. input voltage(V)	1100		
Start-up operating voltage(V)	250		
Rated input voltage(V)	600		
MPPT operating voltage range(V)	200~1000		
Full power MPPT voltage range (V)	450~850		
Max. input current(A)	40+40+40	40+40+40	40+40+40+40
Max. short current(A)	60+60+60	60+60+60	60+60+60+60
AC Output			
Nominal grid voltage(V)	3L/N/PE 230/400V		
Nominal grid frequency (Hz)	50/60		
Rated AC power(kW)	40	45	50
Max. AC power(kW)	44	49.5	55
Rated AC current(A)	58	65.3	72.5
Max. AC current(A)	63.8	71.8	79.8
Output power factor	0.8 leading~0.8 lagging		
General Data			
Operating temperature range	-25 ~ +60 °C		
Protection degree	IP65		
Protective class	Class I		
Cooling method	Intelligent air cooling		
Topology	Non-isolated		

