



## VERIFICATION OF COMPLIANCE

No.: **GZES2211022307PV01**

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

Manufacturer: Ningbo Deye Inverter Technology Co., Ltd.  
No. 26 South YongJiang Road, Daqi, Beilun, NingBo, China

Product Name: Hybrid Inverter

Product Description: Three Phase Hybrid Inverter

Model No.: SUN-29.9K-SG01HP3-EU-BM3, SUN-30K-SG01HP3-EU-BM3  
SUN-35K-SG01HP3-EU-BM3, SUN-40K-SG01HP3-EU-BM4  
SUN-50K-SG01HP3-EU-BM4



Trade Mark:

Rating: Refer to page 2

Intended Use: PV System

Protection against Electric Shock: Class I

Additional Information (if any): IP 65

Software version: MAIN: Ver 3102

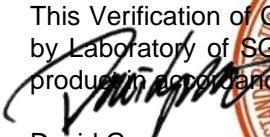
Sufficient samples of the product have been tested and found to be in conformity with

Test Standard: Refer to page 2

as shown in the

Test Report Number(s): GZES221102230701, GZES221102230702

This Verification of Compliance has been granted to the applicant based on the results of tests, performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards.

  
David Guo  
Senior Technical Manager  
SGS-CSTC



2023-03-03

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Other information added :  
Ratings

Model	SUN-29.9K-SG01HP3-E-U-BM3	SUN-30K-SG01HP3-E-U-BM3	SUN-35K-SG01HP3-EU-BM3	SUN-40K-SG01HP3-EU-BM4	SUN-50K-SG01HP3-EU-BM4
<b>PV Input</b>					
Recommended Max. PV input power	38870 Wp	39000 Wp	45500 Wp	52000 Wp	65000 Wp
Max. input voltage	1000 V				
Start-up operating voltage	180 V				
Rated input voltage	600 V				
MPPT operating voltage range	150~850 V				
Full power MPPT voltage range	360~850 V	360~850 V	420~850 V	360~850 V	450~850 V
Max. input current	36/36/36 A			36/36/36/36 A	
Max. short current	55/55/55 A			55/55/55/55 A	
<b>Battery Input</b>					
Battery Type	Li-Ion				
Battery Voltage Range	160~800 V				
Max. Charging Current	50/50 A				
Max. Discharging Current	50/50 A				
<b>AC Output</b>					
Nominal grid voltage	3/N/PE, 230/400 Vac				
Nominal grid frequency	50/60 Hz				
Rated AC power	29900 W	30000 W	35000 W	40000 W	50000 W
Max. AC power	29900 VA	33000 VA	38500 VA	44000 VA	55000 VA
Rated AC current	43.4 A	43.5 A	53.1 A	60.7 A	75.8 A
Max. AC current	43.4 A	47.9 A	55.8 A	63.8 A	79.8 A
Output power factor	1 default (adjustable+/-0.8)				
<b>General Data</b>					
Operating temperature range	-40 °C ~ +60 °C (Above 45 °C Derating)				
Protection degree	IP65				
Protective class	Class I				
Cooling method	Smart cooling				
Topology	Transformerless				

Test Standards:

IEC 62116:2014. Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters.  
IEC 61727:2004. Photovoltaics (PV) systems - Characteristics of the utility interface.



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