

## VERIFICATION OF COMPLIANCE

No.: GZES2101000287PV

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: PV Solar Grid Tie Inverter

Product Description: Inverter used in PV system

Model No.: SUN-60K-G03, SUN-50K-G03, SUN-40K-G03, SUN-35K-G03,  
SUN-33K-G03, SUN-30K-G03, SUN-25K-G03, SUN-20K-G03

Trade Mark:

Rating: Refer to page 2

Intended Use: PV System

Protection against Electric Shock: Class I

Additional Information (if any): IP 65

Firmware version: Ver0179, V2185

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

Test Standard: Refer to page 3

as shown in the

Test Report Number(s): GZES210100028701, GZES210100028702  
GZES210100028703, GZES210100028704

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



2021-02-10

No.:

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Other information added :  
Ratings

Model	SUN-60K-G03	SUN-50K-G03	SUN-40K-G03	SUN-35K-G03
DC Input				
Max. DC Power	78kW	65kW	52kW	45.5kW
Max. DC voltage	1000Vdc			
MPPT voltage range	200-850Vdc			
Full power MPPT voltage range	460-850Vdc			
Max. input current	4x40Aac	4x40Aac	3x40Aac	3x40Aac
AC Output				
Rated power	60kW	50kW	40kW	35kW
Max. AC power	66kW	55kW	44kW	38.5kW
Max. output current	95.7Aac	79.7A	63.8A	55.8A
Nominal grid voltage	3L/N/PE, 230/400V			
Nominal output frequency	50Hz/60Hz			
Output power factor	1 (Adjustable from 0.8 leading to 0.8 lagging)			
Operating temperature range	-20+65°C (derating at +45°C)			
Ingress protection	IP65			
Protective class	Class I			




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Senior Technical Manager  
SGS-CSTC

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Other information added :  
Ratings

Model	SUN-33K-G03	SUN-30K-G03	SUN-25K-G03	SUN-20K-G03
DC Input				
Max. DC Power	42.9kW	39kW	32.5kW	26kW
Max. DC voltage	1000Vdc			
MPPT voltage range	200-850Vdc			
Full power MPPT voltage range	460-850Vdc			
Max. input current	3x40A <sub>dc</sub>	2x40A <sub>dc</sub>	2x30A <sub>dc</sub>	2x25A <sub>dc</sub>
AC Output				
Rated power	33kW	30kW	25kW	20kW
Max. AC power	36.3kW	33kW	27.5kW	22kW
Max. output current	52.8A <sub>ac</sub>	47.8A	39.9A	31.9A
Nominal grid voltage	3L/N/PE, 230/400V			
Nominal output frequency	50Hz/60Hz			
Output power factor	1 (Adjustable from 0.8 leading to 0.8 lagging)			
Operating temperature range	-20+65°C (derating at +45°C)			
Ingress protection	IP65			
Protective class	Class I			




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Test  
Standards:

IEC 60068-2-1:2007. Environmental testing. Part 2-1: Tests. Test Ae: Cold.  
IEC 60068-2-2:2007. Environmental testing. Part 2-2: Tests. Test Be: Dry heat.  
IEC 60068-2-14:2009. Environmental testing. Part 2-14: Tests. Test Nb: Change of temperature.  
IEC 60068-2-30:2005. Environmental testing. Part 2-30: Tests. Test Db-Variant 1: Damp heat, cyclic (12 h + 12 h cycle).  
IEC 61683:1999. Photovoltaics systems - Power conditioners - Procedure for measuring efficiency.  
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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