



VERIFICATION OF COMPLIANCE

No.: GZES2110029490PVA01


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: Grid-Connected PV Inverter

Product Description: Inverter used in PV system

Model No.: SUN-18K-G04, SUN-20K-G04, SUN-25K-G04, SUN-30K-G04,
SUN-33K-G04, SUN-35K-G04, SUN-36K-G04

Trade Mark: 

Rating: See page 2 and page 3

Protection against Electric Shock: Class I

Additional Information (if any): Firmware version: Ver 3172

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

Test Standard: See page 3
as shown in the

Test Report Number(s): GZES211002949001, GZES211002949002,
GZES211002949003, GZES211002949004

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
Senior Technical Manager
SGS-CSTC



2023-01-06

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Other information added:

Rating:

Product Model	SUN-18K-G04	SUN-20K-G04	SUN-25K-G04
Input (DC)			
Max.DC Input Power (kW)	23.4	26	32.5
Max.DC Voltage (V)	1000		
Start-up input voltage (V)	250		
Rated input voltage (V)	600		
MPPT Voltage Range (V)	200-850		
Full load DC voltage range (V)	500-850	550-850	
Max. input current per MPPT (A)	32*2		
Number of MPPT/Strings per MPPT	2/2		
Output (AC)			
Max AC Output power (kW)	19.8	22	27.5
Rated AC Output power (kW)	18.0	20.0	25.0
Max AC Output Current (A)	28.7	31.9	39.8
Rated AC Output Current (A)	26.1	29.0	36.2
Nominal Grid Voltage (V)	230		
Nominal Frequency (Hz)	50 / 60		
Power factor	> 0.99 (adjustable +/-0.8)		
Topology	Transformerless		
Operating temperature range	-25 ~ 65 °C (derating at +45 °C)		
Degree of protection	IP65		

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Other information added:

Rating:

Product Model	SUN-30K-G04	SUN-33K-G04	SUN-35K-G04	SUN-36K-G04
Input (DC)				
Max.DC Input Power (kW)	39	42.9	45.5	46.8
Max.DC Voltage (V)	1000			
Start-up input voltage (V)	250			
Rated input voltage (V)	600			
MPPT Voltage Range (V)	200-850			
Full load DC voltage range (V)	480-850		500-850	
Max. input current per MPPT (A)	40*2			
Number of MPPT/Strings per MPPT	2/3			
Output (AC)				
Max AC Output power (kW)	33.0	36.3	38.5	39.6
Rated AC Output power (kW)	30.0	33.0	35.0	36.0
Max AC Output Current(A)	47.9	52.6	55.8	57.4
Rated AC Output Current (A)	43.5	47.8	50.7	52.2
Nominal Grid Voltage (V)	230			
Nominal Frequency (Hz)	50 / 60			
Power factor	> 0.99 (adjustable +/-0.8)			
Topology	Transformerless			
Operating temperature range	-25 ~ 65 °C (derating at +45 °C)			
Degree of protection	IP65			

Test Standard: 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 Na: Change of temperature.
 IEC 60068-2-30:2005. Environmental testing. Part 2-30: Tests. Test Db-Variant 2: 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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