



VERIFICATION OF COMPLIANCE

No.: GZES1909024471PV


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 (Single phase)

Product Description: Inverter used in PV system

Model No.: SUN-5K-SG03LP1-EU, SUN-5K-SG03LP1-EU-B;
SUN-3.6K-SG03LP1-EU, SUN-3.6K-SG03LP1-EU-B;

Trade Mark: 

Rating: Refer to page 2

Intended Use: PV System

Protection against Electric Shock: Class I

Additional Information (if any): IP 65/IP 20

Firmware version: HMI: Verc308
MAIN: Ver0108

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): GZES190902447101, GZES190902447102
GZES190902447103, GZES190902447104

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 G. 
Senior Technical Manager
SGS-CSTC



2019-11-20

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Other information added:

Ratings

Model Number	SUN-5K-SG03LP1-EU	SUN-5K-SG03LP1-EU-B	SUN-3.6K-SG03LP1-EU	SUN-3.6K-SG03LP1-EU-B
Max. DC input power	6500W		4680W	
Max. input voltage	500Vd.c.			
Rated voltage	370Vd.c.			
Max. input current	11Ad.c.x2			
Operating MPPT voltage range	125V-425 Vd.c.			
Full load DC Voltage Range	240V-425 Vd.c.			
Battery voltage	40V-60V			
Battery current	120A d.c.Max		90A d.c.Max	
Rated grid voltage	230Va.c.(180V-265V)			
Rated grid frequency	50Hz / 60Hz			
AC Rated output power	5000W		3600W	
Max.AC output power	5500W		3960W	
Rated output current	21.7Aa.c		15.7Aa.c	
Max. output current	25Aa.c		18Aa.c	
Power factor	0.8 leading to 0.8 lagging			
Ambient temperature	-25°C~60°C			
Ingress protection	IP65	IP20	IP65	IP20
Protective class	Class I			

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 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.

David Guo
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