

VERIFICATION OF COMPLIANCE

No.: GZES2107024085PV

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: Hybrid inverter used in PV system

Model No.: **SUN-3.6K-SG05LP1-EU, SUN-5K-SG05LP1-EU,
SUN-6K-SG05LP1-EU, SUN-7.6K-SG05LP1-EU,
SUN-8K-SG05LP1-EU**

Trade Mark:

Rating: Refer to page 2

Intended Use: PV System

Protection against Electric Shock: Class I

Additional Information (if any): IP 65
Main: Ver5980; **HMI:** Verc339

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): GZES210702408501, GZES210702408502
GZES210702408503, GZES210702408504

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



2022-08-05

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Other information added :
Ratings

Product Model	SUN-3.6K-SG05LP1-EU	SUN-5K-SG05LP1-EU	SUN-6K-SG05LP1-EU	SUN-7.6K-SG05LP1-EU	SUN-8K-SG05LP1-EU
PV Input					
Max.DC Input Power (W)	4680	6500	7800	9880	10400
Max.DC Voltage (V)	500				
Start-up input voltage (V)	125				
Rated input voltage (V)	370				
MPPT Voltage Range (V)	150~425				
Full load DC voltage range (V)	300~425			200~425	
Max. input current per MPPT (A)	13/13			26/26	
Battery Input					
Battery Type	Lead-acid or Li-Ion				
Battery Voltage Range (V)	40-60				
Max. Charging Current (A)	90	120	135	190	190
Max. Discharging Current (A)	90	120	135	190	190
AC Output					
Max AC Output power (W)	3960	5500	6600	8360	8800
Rated AC Output and UPS power (W)	3600	5000	6000	7600	8000
Max AC Output Current (A) ⁽¹⁾	16.4	22.7	27.3	34.5	36.4
Rated AC Output Current (A) ⁽¹⁾	18.0	25.0	30.0	38.0	40.0
Nominal Grid Voltage (V)	L/N/PE~220/230				
Nominal Frequency (Hz)	50				
Power factor	0.8 leading...0.8 lagging				
Topology	Non-isolated				
Operating temperature range	-40 °C ~ +60 °C				
Degree of protection	IP65				

⁽¹⁾ The current is voltage of 220V.



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Test Standard: IEC 61727:2004. Photovoltaics (PV) systems - Characteristics of the utility interface.
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 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).



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