

VERIFICATION OF COMPLIANCE

No.: GZES2211022308PV02A01


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-5K-SG01HP3-EU-AM2, SUN-6K-SG01HP3-EU-AM2,
SUN-8K-SG01HP3-EU-AM2, SUN-10K-SG01HP3-EU-AM2,
SUN-12K-SG01HP3-EU-AM2, SUN-15K-SG01HP3-EU-AM2,
SUN-20K-SG01HP3-EU-AM2, SUN-25K-SG01HP3-EU-AM2

Trade Mark: 

Rating: See page 2 and page 3

Protection against Electric Shock: Class I

Additional Information (if any): IP 65
Software version: MAIN: Ver 3001-1038-1C08

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

Test Standard: See page 4
as shown in the

Test Report Number(s): GZES221102230803 Amendment 01,
GZES221102230804 Amendment 01

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
Technical Manager
SGS-CSTC



2024-03-07

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No.:

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Other information added:

Rating:

Model	SUN-5K- SG01HP3-EU- AM2	SUN-6K- SG01HP3-EU- AM2	SUN-8K- SG01HP3-EU- AM2	SUN-10K- SG01HP3-EU- AM2
PV Input				
Max. input voltage(V)	1000			
Start-up operating voltage(V)	180			
Rated input voltage(V)	600			
Full power MPPT voltage range(V)	195~850	195~850	260~850	325~850
Max. input current(A)	20+20			
Max. short current(A)	30+30			
Battery Input				
Battery Type	Li-Ion			
Battery Voltage Range(V)	160~700			
Max. Charging/ Discharging Current(A)	30	30	37	37
Max. Charging/ Discharging Power (kW)	5.5	6.6	8.8	11.0
AC Output				
Nominal grid voltage(V)	230/400			
Nominal grid frequency(Hz)	50			
Rated AC power(kW)	5.0	6.0	8.0	10.0
Max. AC Apparent power(kVA)	5.5	6.6	8.8	11.0
Rated AC current(A)	7.3	8.7	11.6	14.5
Max. AC current(A)	8.0	9.6	12.8	16.0
Output power factor	0.8 leading to 0.8 lagging			
General Data				
Operating temperature range	-40 °C ~ +60 °C (Above 45 °C Derating)			
Protection degree	IP65			
Protective class	Class I			
Cooling method	Smart cooling			
Topology	Transformerless			

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No.:

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Other information added:

Rating:

Model	SUN-12K-SG01HP3-EU-AM2	SUN-15K-SG01HP3-EU-AM2	SUN-20K-SG01HP3-EU-AM2	SUN-25K-SG01HP3-EU-AM2
PV Input				
Max. input voltage(V)	1000			
Start-up operating voltage(V)	180			
Rated input voltage(V)	600			700
Full power MPPT voltage range(V)	340~850	420~850	500~850	625~850
Max. input current(A)	26+20	26+20	26+26	26+26
Max. short current(A)	39+30	39+30	39+39	39+39
Battery Input				
Battery Type	Li-Ion			
Battery Voltage Range(V)	160~700			
Max. Charging/ Discharging Current(A)	37	37	37	50
Max. Charging/ Discharging Power (kW)	13.2	16.5	22.0	27.5
AC Output				
Nominal grid voltage(V)	230/400			
Nominal grid frequency(Hz)	50			
Rated AC power(kW)	12.0	15.0	20.0	25.0
Max. AC Apparent power(kVA)	13.2	16.5	22.0	27.5
Rated AC current(A)	17.4	21.8	29.0	36.3
Max. AC current(A)	19.2	24.0	31.9	39.9
Output power factor	0.8 leading to 0.8 lagging			
General Data				
Operating temperature range	-40 °C ~ +60 °C (Above 45 °C Derating)			
Protection degree	IP65			
Protective class	Class I			
Cooling method	Smart cooling			
Topology	Transformerless			

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Other information added:

Test
Standard:

IEC 61683:1999. Photovoltaics systems - Power conditioners - Procedure for measuring efficiency.
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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