

Certificate of Conformity

By the product certificate number:

No. 230022RECO10-CER

Issued to:

License holder:

NingBo Deye Inverter Technology Co., Ltd.

No. 26 South YongJiang Road, Dagi, Beilun, NingBo, China

Trademark:

Deye

Manufacturer:

NingBo Deye Inverter Technology Co., Ltd.

No. 26 South YongJiang Road, Daqi, Beilun, NingBo, China

It is certified that the product:

Type of generating unit:

Hybrid inverter

Models:

SUN-29.9K-SG01HP3-EU-BM3, SUN-30K-SG01HP3-EU-BM3, SUN-35K-SG01HP3-EU-BM3, SUN-40K-SG01HP3-EU-BM4, SUN-50K-SG01HP3-EU-BM4.

Technical Data:

Nominal power [W]

See page 2

Nominal voltage [V]

3/N/PE, 230/400 V

Nominal frequency [Hz]

50 Hz / 60 Hz

Firmware version

MAIN: Ver 3102

Number of phases

Three Phase

Isolation Transformer

No

Is in compliance with the standard:

IEC 61683:1999. "Photovoltaic systems. Power conditioners. Procedure for measuring efficiency."

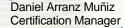
This certificate is based upon the test results of the Test Report GZES221102230703 ⁽¹⁾ The tests shown in this test report are carried out at a frequency of 50 Hz.

The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-33 based on the requirements of the UNE-EN ISO / IEC 17065.

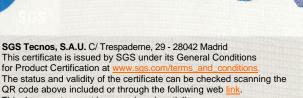
First issued on 16th May 2023 This certificate is valid until 16th May 2028

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Madrid, 16th May 2023













Full list of product references and nominal characteristics:

Model	SUN-29.9K- SG01HP3-EU- BM3	SUN-30K- SG01HP3-EU- BM3	SUN-35K- SG01HP3-EU- BM3	SUN-40K- SG01HP3-EU- BM4	SUN-50K- SG01HP3-EU- BM4				
PV Input			- I						
Rated input voltage	600 V								
MPPT operating voltage range		150~850 V							
Max. input current		36/36/36 A 36/36/36/3 A							
Max. short current	55/55/55 A 55/55/55 A								
Battery Input									
Battery Type		Li-lon							
Battery Voltage Range	160~800 V								
Max. Charging Current	50/50 A								
Max. Discharging Current	50/50 A								
AC Output									
Rated AC power	29900 W	30000 W	35000 W	40000 W	50000 W				
Max. AC power	29900 VA	33000 VA	38500 VA	44000 VA	55000 VA				
Rated AC current	43.4 A	43.5 A	50.8 A	58.0 A	72.5 A				
Max. AC current	43.4 A	47.9 A	55.8 A	63.8 A	79.8 A				







Summary of efficiency results measured for the tested models:

These efficiency results are representatives for the referred models with a testing frequency of 50Hz.

Power conditioner type - Grid Connected

SUN-29.9K-SG01HP3-EU-BM3							
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn		
Minimum rated input voltage (1)	95.0%	96.4%	97.6%	97.3%	97.1%		
Nominal input voltage (2)	96.0%	98.4%	98.3%	98.0%	97.7%		
90% of the maximum rated input voltage (3)	95.6%	98.0%	97.9%	97.7%	97.5%		

(1) 360 V; (2)600 V; (3)850 V

SUN-30K-SG01HP3-EU-BM3							
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn		
Minimum rated input voltage (1)	94.9%	96.3%	97.6%	97.3%	97.1%		
Nominal input voltage (2)	96.1%	98.3%	98.2%	97.9%	97.7%		
90% of the maximum rated input voltage (3)	95.7%	98.1%	97.9%	97.7%	97.5%		

(1) 360 V; (2)600 V; (3)850 V

SUN-35K-SG01HP3-EU-BM3							
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn		
Minimum rated input voltage (1)	95.4%	98.1%	97.9%	97.6%	97.3%		
Nominal input voltage (2)	96.3%	98.5%	98.4%	98.2%	97.8%		
90% of the maximum rated input voltage (3)	95.9%	98.3%	98.2%	98.1%	97.7%		

(1) 360 V; (2)600 V; (3)850 V

SUN-40K-SG01HP3-EU-BM4							
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn		
Minimum rated input voltage (1)	95.1%	97.7%	97.9%	97.5%	97.2%		
Nominal input voltage (2)	95.9%	98.4%	98.3%	98.2%	97.9%		
90% of the maximum rated input voltage (3)	95.5%	98.2%	98.1%	97.9%	97.7%		

(1) 360 V; (2)600 V; (3)850 V

SUN-50K-SG01HP3-EU-BM4							
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn		
Minimum rated input voltage (1)	96.0%	97.7%	98.1%	98.0%	97.5%		
Nominal input voltage (2)	97.1%	98.6%	98.5%	98.4%	98.1%		
90% of the maximum rated input voltage (3)	96.8%	98.4%	98.3%	98.2%	98.1%		

(1) 360 V; (2)600 V; (3)850 V



