

# 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, Daqi, Beilun, NingBo, China

Trademark:



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 <sup>(1)</sup>

<sup>(1)</sup> 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 16<sup>th</sup> May 2023

This certificate is valid until 16<sup>th</sup> May 2028

Madrid, 16<sup>th</sup> May 2023



Daniel Arranz Muñiz  
Certification Manager





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					
Rated input voltage	600 V				
MPPT operating voltage range	150~850 V				
Max. input current	36/36/36 A			36/36/36/36 A	
Max. short current	55/55/55 A			55/55/55/55 A	
Battery Input					
Battery Type	Li-Ion				
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 <sup>(1)</sup>	95.0%	96.4%	97.6%	97.3%	97.1%
Nominal input voltage <sup>(2)</sup>	96.0%	98.4%	98.3%	98.0%	97.7%
90% of the maximum rated input voltage <sup>(3)</sup>	95.6%	98.0%	97.9%	97.7%	97.5%

<sup>(1)</sup> 360 V; <sup>(2)</sup> 600 V; <sup>(3)</sup> 850 V

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

<sup>(1)</sup> 360 V; <sup>(2)</sup> 600 V; <sup>(3)</sup> 850 V

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

<sup>(1)</sup> 360 V; <sup>(2)</sup> 600 V; <sup>(3)</sup> 850 V

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

<sup>(1)</sup> 360 V; <sup>(2)</sup> 600 V; <sup>(3)</sup> 850 V

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

<sup>(1)</sup> 360 V; <sup>(2)</sup> 600 V; <sup>(3)</sup> 850 V

