

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 ⁽¹⁾

⁽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

Madrid, 16th 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 ⁽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

