

# Certificate of Conformity

By the product certificate number:

No. 2622/0511-C-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: **Grid-connected PV Inverter**

Models: **SUN-18K-G04 / SUN-20K-G04 / SUN-25K-G04 / SUN-30K-G04 / SUN-33K-G04 / SUN-35K-G04 / SUN-36K-G04**

Technical Data:	Nominal power [W]	See page 2
	Nominal voltage [V]	3L/N/PE; 230 V / 400 V
	Nominal frequency [Hz]	50 Hz / 60 Hz
	Firmware version	Ver 3172
	Number of phases	Tree Phases
	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 GZES211002949003

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 04<sup>th</sup> January 2023

This certificate is valid until 04<sup>th</sup> January 2028

**Madrid, 04<sup>th</sup> January 2023**

Daniel Arranz Muñiz  
Certification Manager



**Full list of product references and nominal characteristics:**

Model	SUN-18K-G04	SUN-20K-G04	SUN-25K-G04
Input (DC)			
Max. input current [A]	32*2		
Max.DC Voltage [V]	1000		
MPPT Voltage Range [V]	200~850		
Full load DC Voltage Range [V]	500~850	550~850	
Output (AC)			
Rated AC Output Power [W]	18000	20000	25000
Max AC Output Power [W]	19800	22000	27500
Nominal AC output current [A]	26.1	29.0	36.2
Nominal Grid Voltage	3L/N/PE; 230 V <sub>ac</sub> / 400 V <sub>ac</sub>		
Nominal Frequency	50 Hz / 60 Hz		

Model	SUN-30K-G04	SUN-33K-G04	SUN-35K-G04	SUN-36K-G04
Input (DC)				
Max. input current [A]	40*2			
Max.DC Voltage [V]	1000			
MPPT Voltage Range [V]	200~850			
Full load DC Voltage Range [V]	480~850	500~850		
Output (AC)				
Rated AC Output Power [W]	30000	33000	35000	36000
Max AC Output Power [W]	33000	36300	38500	39600
Nominal AC output current [A]	43.5	47.8	50.7	52.2
Nominal Grid Voltage	3L/N/PE; 230 V <sub>ac</sub> / 400 V <sub>ac</sub>			
Nominal Frequency	50 Hz / 60 Hz			



**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

<b>SUN-36K-G04</b>					
<b>Test condition</b>	<b>10%Sn</b>	<b>25%Sn</b>	<b>50%Sn</b>	<b>75%Sn</b>	<b>100%Sn</b>
Minimum rated input voltage <sup>(1)</sup>	96.7%	98.3%	97.9%	97.8%	97.5%
Nominal input voltage <sup>(2)</sup>	97.2%	98.6%	98.5%	98.2%	97.7%
90% of the maximum rated input voltage <sup>(3)</sup>	96.9%	98.5%	98.2%	98.0%	97.6%

<sup>(1)</sup> 250 V; <sup>(2)</sup>370 V; <sup>(3)</sup>425 V

<b>SUN-35K-G04</b>					
<b>Test condition</b>	<b>10%Sn</b>	<b>25%Sn</b>	<b>50%Sn</b>	<b>75%Sn</b>	<b>100%Sn</b>
Minimum rated input voltage <sup>(1)</sup>	96.7%	98.3%	98.0%	97.8%	97.5%
Nominal input voltage <sup>(2)</sup>	97.2%	98.6%	98.4%	98.1%	97.8%
90% of the maximum rated input voltage <sup>(3)</sup>	96.9%	98.4%	98.2%	97.9%	97.7%

<sup>(1)</sup> 250 V; <sup>(2)</sup>370 V; <sup>(3)</sup>425 V

<b>SUN-33K-G04</b>					
<b>Test condition</b>	<b>10%Sn</b>	<b>25%Sn</b>	<b>50%Sn</b>	<b>75%Sn</b>	<b>100%Sn</b>
Minimum rated input voltage <sup>(1)</sup>	96.7%	98.2%	98.0%	97.6%	97.3%
Nominal input voltage <sup>(2)</sup>	97.2%	98.6%	98.4%	98.1%	97.7%
90% of the maximum rated input voltage <sup>(3)</sup>	97.0%	98.4%	98.1%	98.0%	97.5%

<sup>(1)</sup> 250 V; <sup>(2)</sup>370 V; <sup>(3)</sup>425 V

<b>SUN-30K-G04</b>					
<b>Test condition</b>	<b>10%Sn</b>	<b>25%Sn</b>	<b>50%Sn</b>	<b>75%Sn</b>	<b>100%Sn</b>
Minimum rated input voltage <sup>(1)</sup>	96.7%	98.2%	98.1%	97.8%	97.4%
Nominal input voltage <sup>(2)</sup>	97.1%	98.6%	98.4%	98.1%	97.8%
90% of the maximum rated input voltage <sup>(3)</sup>	96.9%	98.4%	98.2%	98.0%	97.6%

<sup>(1)</sup> 250 V; <sup>(2)</sup>370 V; <sup>(3)</sup>425 V

<b>SUN-25K-G04</b>					
<b>Test condition</b>	<b>10%Sn</b>	<b>25%Sn</b>	<b>50%Sn</b>	<b>75%Sn</b>	<b>100%Sn</b>
Minimum rated input voltage <sup>(1)</sup>	97.0%	98.4%	98.2%	98.1%	97.7%
Nominal input voltage <sup>(2)</sup>	97.4%	98.6%	98.4%	98.3%	97.9%
90% of the maximum rated input voltage <sup>(3)</sup>	97.2%	98.4%	98.4%	98.2%	97.8%

<sup>(1)</sup> 250 V; <sup>(2)</sup>370 V; <sup>(3)</sup>425 V

<b>SUN-20K-G04</b>					
<b>Test condition</b>	<b>10%Sn</b>	<b>25%Sn</b>	<b>50%Sn</b>	<b>75%Sn</b>	<b>100%Sn</b>
Minimum rated input voltage <sup>(1)</sup>	96.8%	98.4%	98.2%	97.9%	97.7%
Nominal input voltage <sup>(2)</sup>	97.3%	98.6%	98.4%	98.2%	97.9%
90% of the maximum rated input voltage <sup>(3)</sup>	97.0%	98.5%	98.3%	98.1%	97.8%

<sup>(1)</sup> 500 V; <sup>(2)</sup>600 V; <sup>(3)</sup>765 V

<b>SUN-18K-G04</b>					
<b>Test condition</b>	<b>10%Sn</b>	<b>25%Sn</b>	<b>50%Sn</b>	<b>75%Sn</b>	<b>100%Sn</b>
Minimum rated input voltage <sup>(1)</sup>	96.6%	98.4%	98.0%	97.9%	97.4%
Nominal input voltage <sup>(2)</sup>	97.0%	98.6%	98.4%	98.2%	97.8%
90% of the maximum rated input voltage <sup>(3)</sup>	96.8%	98.4%	98.3%	98.0%	97.6%

<sup>(1)</sup> 500 V; <sup>(2)</sup>600 V; <sup>(3)</sup>765 V



**Summary of efficiency results measured for the tested models:**

These efficiency results are representatives for the referred models with a testing frequency of 60Hz.

Power conditioner type – Grid Connected

SUN-36K-G04					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage <sup>(1)</sup>	96.8%	98.2%	97.9%	97.7%	97.5%
Nominal input voltage <sup>(2)</sup>	97.2%	98.6%	98.4%	98.1%	97.7%
90% of the maximum rated input voltage <sup>(3)</sup>	96.9%	98.4%	98.2%	98.0%	97.6%

<sup>(1)</sup> 250 V; <sup>(2)</sup>370 V; <sup>(3)</sup>425 V

SUN-35K-G04					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage <sup>(1)</sup>	96.7%	98.2%	98.0%	97.8%	97.5%
Nominal input voltage <sup>(2)</sup>	97.2%	98.6%	98.4%	98.2%	97.9%
90% of the maximum rated input voltage <sup>(3)</sup>	96.9%	98.5%	98.2%	97.9%	97.7%

<sup>(1)</sup> 250 V; <sup>(2)</sup>370 V; <sup>(3)</sup>425 V

SUN-33K-G04					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage <sup>(1)</sup>	97.6%	98.2%	98.0%	97.6%	97.4%
Nominal input voltage <sup>(2)</sup>	97.2%	98.6%	98.4%	98.1%	97.7%
90% of the maximum rated input voltage <sup>(3)</sup>	96.9%	98.4%	98.2%	98.0%	97.6%

<sup>(1)</sup> 250 V; <sup>(2)</sup>370 V; <sup>(3)</sup>425 V

SUN-30K-G04					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage <sup>(1)</sup>	96.7%	98.2%	98.0%	97.8%	97.4%
Nominal input voltage <sup>(2)</sup>	97.1%	98.6%	98.4%	98.1%	97.8%
90% of the maximum rated input voltage <sup>(3)</sup>	96.9%	98.4%	98.2%	98.0%	97.5%

<sup>(1)</sup> 250 V; <sup>(2)</sup>370 V; <sup>(3)</sup>425 V

SUN-25K-G04					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage <sup>(1)</sup>	97.8%	98.3%	98.3%	98.0%	97.8%
Nominal input voltage <sup>(2)</sup>	97.4%	98.6%	98.5%	98.2%	97.9%
90% of the maximum rated input voltage <sup>(3)</sup>	97.1%	98.4%	98.4%	98.2%	97.9%

<sup>(1)</sup> 250 V; <sup>(2)</sup>370 V; <sup>(3)</sup>425 V

SUN-20K-G04					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage <sup>(1)</sup>	97.0%	98.4%	98.2%	97.9%	97.7%
Nominal input voltage <sup>(2)</sup>	97.3%	98.6%	98.4%	98.3%	97.9%
90% of the maximum rated input voltage <sup>(3)</sup>	97.0%	98.5%	98.3%	98.1%	97.8%

<sup>(1)</sup> 500 V; <sup>(2)</sup>600 V; <sup>(3)</sup>765 V

SUN-18K-G04					
Test condition	10%Sn	25%Sn	50%Sn	75%Sn	100%Sn
Minimum rated input voltage <sup>(1)</sup>	96.6%	98.3%	98.1%	97.9%	97.4%
Nominal input voltage <sup>(2)</sup>	97.0%	98.6%	98.4%	98.2%	97.8%
90% of the maximum rated input voltage <sup>(3)</sup>	96.8%	98.4%	98.3%	98.0%	97.6%

<sup>(1)</sup> 500 V; <sup>(2)</sup>600 V; <sup>(3)</sup>765 V

