

# Certificate of Conformity

Product certificate number

No. 2621/0125-C-CER

Issued to:

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: Utility Interactive Inverter

Models	SUN-70K-G03	SUN-75K-G03	SUN-80K-G03	SUN-90K-G03	SUN-100K-G03	SUN-110K-G03
Technical Data						
Nominal power	70 kW	75 kW	80 kW	90 kW	100 kW	110 kW
Nominal voltage	230 / 400 V	230 / 400 V	230 / 400 V	230 / 400 V	230 / 400 V	230 / 400 V
Nominal frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Firmware version	Ver3205					
Number of phases	Three phases					
Isolation Transformer	NO					

Is in compliance with the standard:

**IEC 61683:1999.**

Photovoltaic systems. Power conditioners. Procedure for measuring efficiency.

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 14<sup>th</sup> June 2021

This certificate is valid until 14<sup>th</sup> June 2024

Madrid, 14<sup>th</sup> June 2021



Daniel Arranz Muñiz  
Certification Manager



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

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

<b>SUN-70K-G03</b>					
<b>Test condition</b>	<b>100%Sn</b>	<b>75%Sn</b>	<b>50%Sn</b>	<b>25%Sn</b>	<b>10%Sn</b>
Minimum rated input voltage <sup>(1)</sup>	98.23%	98.32%	98.23%	97.98%	97.50%
Nominal input voltage <sup>(2)</sup>	98.11%	98.40%	98.23%	97.74%	97.50%
90% of the maximum rated input voltage <sup>(3)</sup>	98.75%	98.49%	98.21%	98.07%	97.74%

<sup>(1)</sup> 460 V; <sup>(2)</sup> 650 V; <sup>(3)</sup> 765 V

<b>SUN-75K-G03</b>					
<b>Test condition</b>	<b>100%Sn</b>	<b>75%Sn</b>	<b>50%Sn</b>	<b>25%Sn</b>	<b>10%Sn</b>
Minimum rated input voltage <sup>(1)</sup>	98.23%	98.35%	98.12%	98.12%	97.09%
Nominal input voltage <sup>(2)</sup>	98.23%	98.50%	98.35%	98.12%	97.09%
90% of the maximum rated input voltage <sup>(3)</sup>	98.26%	98.58%	98.43%	98.38%	97.18%

<sup>(1)</sup> 460 V; <sup>(2)</sup> 650 V; <sup>(3)</sup> 765 V

<b>SUN-80K-G03</b>					
<b>Test condition</b>	<b>100%Sn</b>	<b>75%Sn</b>	<b>50%Sn</b>	<b>25%Sn</b>	<b>10%Sn</b>
Minimum rated input voltage <sup>(1)</sup>	98.23%	98.30%	98.12%	98.02%	97.27%
Nominal input voltage <sup>(2)</sup>	98.23%	98.52%	98.34%	98.23%	97.27%
90% of the maximum rated input voltage <sup>(3)</sup>	98.37%	98.61%	98.55%	98.31%	97.36%

<sup>(1)</sup> 460 V; <sup>(2)</sup> 650 V; <sup>(3)</sup> 765 V

<b>SUN-90K-G03</b>					
<b>Test condition</b>	<b>100%Sn</b>	<b>75%Sn</b>	<b>50%Sn</b>	<b>25%Sn</b>	<b>10%Sn</b>
Minimum rated input voltage <sup>(1)</sup>	98.28%	98.43%	98.33%	98.23%	97.12%
Nominal input voltage <sup>(2)</sup>	98.33%	98.49%	98.33%	98.43%	97.09%
90% of the maximum rated input voltage <sup>(3)</sup>	98.41%	98.71%	98.51%	98.53%	97.66%

<sup>(1)</sup> 460 V; <sup>(2)</sup> 650 V; <sup>(3)</sup> 765 V

<b>SUN-100K-G03</b>					
<b>Test condition</b>	<b>100%Sn</b>	<b>75%Sn</b>	<b>50%Sn</b>	<b>25%Sn</b>	<b>10%Sn</b>
Minimum rated input voltage <sup>(1)</sup>	98.23%	98.64%	98.58%	98.23%	97.37%
Nominal input voltage <sup>(2)</sup>	98.32%	98.53%	98.50%	98.24%	97.38%
90% of the maximum rated input voltage <sup>(3)</sup>	98.45%	98.74%	98.60%	98.54%	97.90%

<sup>(1)</sup> 460 V; <sup>(2)</sup> 650 V; <sup>(3)</sup> 765 V

<b>SUN-110K-G03</b>					
<b>Test condition</b>	<b>100%Sn</b>	<b>75%Sn</b>	<b>50%Sn</b>	<b>25%Sn</b>	<b>10%Sn</b>
Minimum rated input voltage <sup>(1)</sup>	98.35%	98.49%	98.47%	97.61%	95.31%
Nominal input voltage <sup>(2)</sup>	98.35%	98.50%	98.39%	97.76%	95.31%
90% of the maximum rated input voltage <sup>(3)</sup>	98.34%	98.52%	98.51%	97.78%	95.36%

<sup>(1)</sup> 460 V; <sup>(2)</sup> 650 V; <sup>(3)</sup> 765 V



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

SUN-70K-G03					
Test condition	100%Sn	75%Sn	50%Sn	25%Sn	10%Sn
Minimum rated input voltage <sup>(1)</sup>	98.23%	98.32%	98.23%	97.98%	97.50%
Nominal input voltage <sup>(2)</sup>	98.23%	98.32%	98.23%	97.98%	97.50%
90% of the maximum rated input voltage <sup>(3)</sup>	98.17%	98.43%	98.24%	98.05%	97.05%

<sup>(1)</sup> 460 V; <sup>(2)</sup> 650 V; <sup>(3)</sup> 765 V

SUN-75K-G03					
Test condition	100%Sn	75%Sn	50%Sn	25%Sn	10%Sn
Minimum rated input voltage <sup>(1)</sup>	98.24%	98.35%	98.23%	97.89%	97.09%
Nominal input voltage <sup>(2)</sup>	98.18%	98.50%	98.35%	98.12%	97.09%
90% of the maximum rated input voltage <sup>(3)</sup>	98.41%	98.52%	98.44%	98.20%	97.18%

<sup>(1)</sup> 460 V; <sup>(2)</sup> 650 V; <sup>(3)</sup> 765 V

SUN-80K-G03					
Test condition	100%Sn	75%Sn	50%Sn	25%Sn	10%Sn
Minimum rated input voltage <sup>(1)</sup>	98.23%	98.31%	98.23%	98.23%	97.27%
Nominal input voltage <sup>(2)</sup>	98.23%	98.52%	98.34%	98.23%	97.27%
90% of the maximum rated input voltage <sup>(3)</sup>	98.38%	98.61%	98.38%	98.11%	97.34%

<sup>(1)</sup> 460 V; <sup>(2)</sup> 650 V; <sup>(3)</sup> 765 V

SUN-90K-G03					
Test condition	100%Sn	75%Sn	50%Sn	25%Sn	10%Sn
Minimum rated input voltage <sup>(1)</sup>	98.33%	98.43%	98.33%	98.23%	97.60%
Nominal input voltage <sup>(2)</sup>	98.33%	98.56%	98.33%	98.43%	97.09%
90% of the maximum rated input voltage <sup>(3)</sup>	98.36%	98.71%	98.60%	98.31%	97.77%

<sup>(1)</sup> 460 V; <sup>(2)</sup> 650 V; <sup>(3)</sup> 765 V

SUN-100K-G03					
Test condition	100%Sn	75%Sn	50%Sn	25%Sn	10%Sn
Minimum rated input voltage <sup>(1)</sup>	98.19%	98.64%	98.49%	98.23%	97.37%
Nominal input voltage <sup>(2)</sup>	98.32%	98.52%	98.41%	98.24%	96.94%
90% of the maximum rated input voltage <sup>(3)</sup>	98.42%	98.68%	98.68%	98.31%	97.89%

<sup>(1)</sup> 460 V; <sup>(2)</sup> 650 V; <sup>(3)</sup> 765 V

SUN-110K-G03					
Test condition	100%Sn	75%Sn	50%Sn	25%Sn	10%Sn
Minimum rated input voltage <sup>(1)</sup>	98.31%	98.45%	98.39%	97.78%	94.96%
Nominal input voltage <sup>(2)</sup>	98.31%	98.40%	98.40%	97.91%	97.21%
90% of the maximum rated input voltage <sup>(3)</sup>	98.43%	98.58%	98.52%	97.76%	95.01%

<sup>(1)</sup> 460 V; <sup>(2)</sup> 650 V; <sup>(3)</sup> 765 V

