



Certificate of Conformity

Product certificate number

No. 2621/0125-C-CER

SUN-110K-

G03

110 kW

230 / 400 V

50 / 60 Hz

SUN-100K-

G03

100 kW

230 / 400 V

50 / 60 Hz

Issued to:

Holder

NingBo Deye Inverter Technology Co., Ltd.

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

Trademark:

Deye Tech. Group

Deye 德業

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

	SUN-70K- G03	SUN-75K- G03	SUN-80K- G03	SUN-90K- G03
Nominal power	70 kW	75 kW	80 kW	90 kW
Nominal voltage	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
Firmware version			Ve	er3205
Number of phases			Three	e phases
Isolation Transformer				NO
	Nominal voltage Nominal frequency Firmware version Number of phases Isolation	G03 Nominal power 70 kW Nominal voltage 230 / 400 V Nominal frequency 50 / 60 Hz Firmware version Number of phases Isolation	Nominal power 70 kW 75 kW Nominal voltage 230 / 400 V 230 / 400 V Nominal frequency 50 / 60 Hz 50 / 60 Hz Firmware version Number of phases Isolation	G03 G03 G03 Nominal power 70 kW 75 kW 80 kW Nominal voltage 230 / 400 V 230 / 400 V Nominal frequency 50 / 60 Hz 50 / 60 Hz Firmware version Version Three Isolation

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 14th June 2021 This certificate is valid until 14th June 2024

Madrid, 14th June 2021

Daniel Arranz Muñiz Certification Manager





SGS Tecnos, S.A. C/ Trespaderne, 29 - 28042 Madrid
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Summary efficiency results measured for the tested models:

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

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

(1) 460 V; (2)650 V; (3)765 V

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

⁽¹⁾ 460 V; ⁽²⁾650 V; ⁽³⁾765 V

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

(1) 460 V; (2)650 V; (3)765 V

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

(1) 460 V; (2)650 V; (3)765 V

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

(1) 460 V; (2)650 V; (3)765 V

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

(1) 460 V; (2)650 V; (3)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 (1)	98.23%	98.32%	98.23%	97.98%	97.50%			
Nominal input voltage (2)	98.23%	98.32%	98.23%	97.98%	97.50%			
90% of the maximum rated input voltage (3)	98.17%	98.43%	98.24%	98.05%	97.05%			

(1) 460 V; (2)650 V; (3)765 V

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

(1) 460 V; (2)650 V; (3)765 V

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

(1) 460 V; (2)650 V; (3)765 V

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

(1) 460 V; (2)650 V; (3)765 V

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

(1) 460 V; (2)650 V; (3)765 V

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

⁽¹⁾ 460 V; ⁽²⁾650 V; ⁽³⁾765 V





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