

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 04th January 2023

This certificate is valid until 04th January 2028

Madrid, 04th 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 _{ac} / 400 V _{ac}		
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 _{ac} / 400 V _{ac}			
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

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

⁽¹⁾ 250 V; ⁽²⁾370 V; ⁽³⁾425 V

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

⁽¹⁾ 250 V; ⁽²⁾370 V; ⁽³⁾425 V

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

⁽¹⁾ 250 V; ⁽²⁾370 V; ⁽³⁾425 V

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

⁽¹⁾ 250 V; ⁽²⁾370 V; ⁽³⁾425 V

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

⁽¹⁾ 250 V; ⁽²⁾370 V; ⁽³⁾425 V

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

⁽¹⁾ 500 V; ⁽²⁾600 V; ⁽³⁾765 V

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

⁽¹⁾ 500 V; ⁽²⁾600 V; ⁽³⁾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 ⁽¹⁾	96.8%	98.2%	97.9%	97.7%	97.5%
Nominal input voltage ⁽²⁾	97.2%	98.6%	98.4%	98.1%	97.7%
90% of the maximum rated input voltage ⁽³⁾	96.9%	98.4%	98.2%	98.0%	97.6%

⁽¹⁾ 250 V; ⁽²⁾370 V; ⁽³⁾425 V

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

⁽¹⁾ 250 V; ⁽²⁾370 V; ⁽³⁾425 V

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

⁽¹⁾ 250 V; ⁽²⁾370 V; ⁽³⁾425 V

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

⁽¹⁾ 250 V; ⁽²⁾370 V; ⁽³⁾425 V

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

⁽¹⁾ 250 V; ⁽²⁾370 V; ⁽³⁾425 V

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

⁽¹⁾ 500 V; ⁽²⁾600 V; ⁽³⁾765 V

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

⁽¹⁾ 500 V; ⁽²⁾600 V; ⁽³⁾765 V

