

Certificate of Conformity

By the product certificate number:

No. 2621/0125-A-M9-CER/E1

Issued to:

License holder:

ELGIN S.A

Av. Dante Jordão Stopa, 47 - César De Souzacep 08820-320 - Mogi Das Cruzes –SPCNPJ:52.556.578/0001-22

Trademark:



Contract number: 801656

It is certified that the product:

Type of generating unit: Utility Interactive Inverter

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

Is in compliance with the standard:

- **IEC 61727: 2004.** "Photovoltaic (PV) systems – Characteristics of the utility interface."

This certificate is based upon the test results of the Test Report BL-DG2350951-201⁽¹⁾

⁽¹⁾ The tests shown in this test report are carried out at a frequency of 50/60 Hz.

The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-32 based on the requirements of the UNE-EN ISO / IEC 17065.

First issued on 02nd November 2022

This certificate is valid until 11th June 2029

Madrid, 10th June 2024

Daniel Arranz Muñiz
Certification Manager



SGS Tecnos, S.A.U. C/ Trespaderne, 29 - 28042 Madrid
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Contract number:

801656

It is certified that the product:

Type of generating unit: **Utility Interactive Inverter**

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

Is in compliance with the standard:

- **IEC 62116:2014** “Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters”.

This certificate is based upon the test results of the Test Report BL-DG21350952-201⁽¹⁾

⁽¹⁾ The tests shown in this test report are carried out at a frequency of 50/60 Hz.

The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-18 based on the requirements of the UNE-EN ISO / IEC 17065.

First issued on 02nd November 2022

This certificate is valid until 14th June 2029

Madrid, 10th June 2024

Daniel Arranz Muñiz
Certification Manager



Certificate of Conformity

Product certificate number:

No. 2621/0125-C-M9-CER/E1

Issued to:

License holder:

ELGIN S.A

Av. Dante Jordão Stopa, 47 - César De Souzacep 08820-320 - Mogi Das Cruzes –SPCNPJ:52.556.578/0001-22

Trademark:



Contract number: 801656

It is certified that the product:

Type of generating unit: Utility Interactive Inverter

Models:	ELGIN-70K-G03	ELGIN-75K-G03	ELGIN-80K-G03	ELGIN-90K-G03	ELGIN-100K-G03	ELGIN-110K-G03
Technical Data:						
Nominal power	70 kW	75 kW	80 kW	90 kW	100 kW	110 kW
Nominal voltage	230 / 400 V					
Nominal frequency	50 / 60 Hz					
Firmware version	Ver3205					
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 BL-DG2350953-201⁽¹⁾

⁽¹⁾ The tests shown in this test report are carried out at a frequency of 50/60 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 02nd November 2022

This certificate is valid until 14th June 2029

Madrid, 10th June 2024

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.

ELGIN-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

ELGIN-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

ELGIN-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

ELGIN-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

ELGIN-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

ELGIN-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.

ELGIN-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

ELGIN-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

ELGIN-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

ELGIN-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

ELGIN-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

ELGIN-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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Type of generating unit: Utility Interactive Inverter

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Technical Data:						
Nominal power	70 kW	75 kW	80 kW	90 kW	100 kW	110 kW
Nominal voltage	230 / 400 V					
Nominal frequency	50 / 60 Hz					
Firmware version	Ver3205					
Number of phases	Three Phase					
Isolation Transformer	No					

Is in compliance with the standards:

- IEC 60068-2-1: 2007 “Environmental testing. Part 2-1. Test Ae: Cold.”
- IEC 60068-2-2: 2007 “Environmental testing. Part 2-2. Test Be: Dry heat.”
- IEC 60068-2-14: 2009 “Environmental testing. Part 2-14. Test Nb: Changes of temperature.”
- IEC 60068-2-30: 2005 “Environmental testing. Part 2-30. Test Db – Variant 1: Damp heat, cyclic (12 h + 12 h).”

This certificate is based upon the test results of the Test Report nº BL-DG2350954-201. This report confirms that one sample of the above-mentioned products has been tested with positive result against the requirements of these IEC standards for environmental conditions.

The above-mentioned generating unit is certified according to the SGS internal process 4 based on the requirements of the UNE-EN ISO/IEC 17065.

First issued on 02nd November 2022
This certificate is valid until 14th June 2029

Madrid, 10th June 2024

Daniel Arranz Muñiz
Certification Manager

