

Certificate of Conformity

By the product certificate number:

No. 2621/0125-B-M9-CER

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	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 62116 :2014

Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters.

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 2024

Madrid, 02nd November 2022



Daniel Arranz Muñiz
Certification Manager



Certificate of Conformity

By the product certificate number:

No. 2621/0125-A-M9-CER

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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	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 phase					
Isolation Transformer	No					

Is in compliance with the standard:

- **IEC 61727:2004.**

Photovoltaic (PV) systems – Characteristics of the utility interface.

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 2024

Madrid, 02nd November 2022



Daniel Arranz Muñoz
Certification Manager



Certificate of Conformity

By the product certificate number:
Issued to:

No. 2621/0125-D-M9-CER

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	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 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-DG2140198-B03. 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 2024

Madrid, 02nd November 2022


Daniel Arranz Muñiz
Certification Manager



Certificate of Conformity

Product certificate number:

No. 2621/0125-C-M9-CER

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	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 phase					
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 02nd November 2022

This certificate is valid until 14th June 2024

Madrid, 02nd November 2022



Daniel Arranz Muñoz
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





VERIFICATION OF CONFORMITY

Dongguan BALUN Testing Technology Co., Ltd.

Room 104, 204, 205, Building 1, No. 6, Industrial South Road, Songshan Lake District, Dongguan, Guangdong, China

Certificate No.: BL-DG22B0021D01

Applicant: ELGIN S.A

Address: AV. DANTE JORDÃO STOPA, 47 - CÉSAR DE SOUZACEP 08820-320 -
MOGI DAS CRUZES - SPCNPJ:52.556.578/0001-22

Manufacture: ELGIN S.A

Address: AV. DANTE JORDÃO STOPA, 47 - CÉSAR DE SOUZACEP 08820-320 -
MOGI DAS CRUZES - SPCNPJ:52.556.578/0001-22

Product: Inversor String Simplex

Brand name: 

Model name: ELGIN-70K-G03, ELGIN-75K-G03, ELGIN-80K-G03,
ELGIN-90K-G03, ELGIN-100K-G03, ELGIN-110K-G03

The submitted sample of the above product has been tested according with below Standard(s) used for showing compliance with the essential requirements in the **EMC directive (2014/30/EU)** :

Applied Standards:	Report No.:
EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019, EN IEC 61000-3-11:2019, EN 61000-3-12:2011	BL-DG22B0021-401



Date of Issue: Nov. 09, 2022

Tel: +86 769 22212330

Email: qc@baluntek.com

web: www.baluntek.com



VERIFICATION OF CONFORMITY

Dongguan BALUN Testing Technology Co., Ltd.

Room 104, 204, 205, Building 1, No. 6, Industrial South Road, Songshan Lake District, Dongguan, Guangdong, China

Certificate No.: BL-DG22B0021D02


Applicant: ELGIN S.A

Address: AV. DANTE JORDÃO STOPA, 47 - CÉSAR DE SOUZACEP 08820-320 -
MOGI DAS CRUZES - SPCNPJ:52.556.578/0001-22

Manufacture: ELGIN S.A

Address: AV. DANTE JORDÃO STOPA, 47 - CÉSAR DE SOUZACEP 08820-320 -
MOGI DAS CRUZES - SPCNPJ:52.556.578/0001-22

Product: Inversor String Simplex

Brand name: 

Model name: ELGIN-70K-G03, ELGIN-75K-G03, ELGIN-80K-G03,
ELGIN-90K-G03, ELGIN-100K-G03, ELGIN-110K-G03

The submitted sample of the above product has been tested according with below Standard(s) :

Applied Standards:	Report No.:
IEC 61000-6-2:2016, IEC 61000-6-4:2018, IEC 61000-3-11:2017, IEC 61000-3-12:2011	BL-DG22B0021-401



Date of Issue: Nov. 09, 2022

Tel: +86 769 22212330

Email: qc@baluntek.com

web: www.baluntek.com