



**BUREAU  
VERITAS**

# Certificate of compliance

**Applicant:** SAX Power GmbH  
Oberer Luß 12  
89155 Erbach  
Germany

**Product:** Battery Storage System

**Model:** Home-1-6-5-230  
Home-2-6-4-230  
Home plus-1-8-5-230  
Home plus-2-8-4-230

The device is designed to work as a generation unit of the type: **A**

Inverter for single-phase parallel connection to the public grid. The network monitoring and disconnection device is an integral part of the above-mentioned model.

**Applied rules and standards:**

**EN 50549-1:2019**

Requirements for parallel connection of installations with distribution networks - Part 1: Connection to an LV distribution network - Production of installations up to and including Type B

- 4.4 Normal operating range
- 4.5 Immunity to disturbances
- 4.6 Active response to frequency deviation
- 4.7 Power response to voltage variations and voltage changes
- 4.8 EMC and power quality
- 4.9 Interface protection
- 4.10 Connection and starting to generate electrical power
- 4.11 Ceasing and reduction of active power on set point
- 4.13 Requirements regarding single fault tolerance of interface protection system and interface switch

**DIN VDE V 0124-100:2020 (5.5.2.1 Functional safety of network and system protection)**

Grid integration of generator plants - Low-voltage - Test requirements for generator units to be connected to and operated in parallel with low-voltage distribution networks

**Commission Regulation (EU) 2016/631 of 14 April 2016**

Establishing a network code on requirements for grid connection of generators (NC RFG).

Type approval for generation units to use in Type A

At the time of issue of this certificate, the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

**Report number:** 20TH0533-EN50549-1\_4

**Certificate number:** U24-0884

**Certification Program:** NSOP-0032-DEU-ZE-V10

**Date of issue:** 2024-09-03

**Certification body**



Certification body Bureau Veritas Consumer Products Services Germany GmbH accreditation to DIN EN ISO/IEC 17065

Testing laboratory accredited according to DIN EN ISO/IEC 17025

A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH

**Appendix**

Extract from test report according to EN 50549-1

No. 20TH0533-EN50549-1\_4

**Type Approval and declaration of compliance with the requirements of EN 50549-1 and Commission Regulation (EU) 2016/631 of 14 April 2016**

<b>Manufacturer / applicant</b>	SAX Power GmbH Oberer Luß 12 89155 Erbach Germany
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<b>Micro-generator Type</b>	Battery Storage System
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	Home- 1-6-5-230	Home- 2-6-4-230	Home plus 1-8-5-230	Home plus 2-8-4-230
<b>Output AC voltage [V]</b>	230	230	230	230
<b>Output AC current [A]</b>	20	16	20	16
<b>Initial short-circuit AC current <math>I_{k''}</math> [A]</b>	20	20	20	20
<b>Active Power [W]</b>	4600	3680	4600	3680
<b>Apparent power [VA]</b>	4600	3680	4600	3680
<b>Usable capacity [kWh]</b>	5,2	5,2	7,0	7,0

<b>Firmware version</b>	2021-2-22-2
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**Description of the structure of the power generation unit:**

The power generation unit is equipped with a DC and line-side EMC filter. The power generation unit has no galvanic isolation between DC input and AC output. Output switch-off is performed with single-fault tolerance based on the inverter bridge and two series-connected relays in line and neutral. This enables a safe disconnection of the power generation unit from the network in case of error.

**Note:**

The settings of the interface protection are password protected adjustable.

In case the above stated generators are used with an external protection device, the protection settings of the inverters are to be adjusted according to the manufacturer's declaration.

The above stated generators are tested according to the requirements in the EN 50549-1:2019 Commission Regulation (EU) 2016/631 of 14 April 2016. Any modification that affects the stated tests must be named by the manufacturer/supplier of the product to ensure that the product meets all requirements.