



**Fair  
Trading**

# Certificate of Suitability

## Non-Declared Article

Pursuant to Section 16 (1) of the Gas and Electricity  
(Consumer Safety) Act 2017

**Certificate Number: CS11124N**

This is to certify that the article specified below is accepted by NSW FAIR TRADING as suitable for connection to public electricity supply in NEW SOUTH WALES in accordance with the provisions of AS/NZS 3000 and subject to the condition stated.

**Issued to:** Shenzhen Sinexcel Electric Co., Ltd

**Article:** Bi-Directional Storage Inverter  
[three phase non-isolated type bi-directional storage inverter installed and connected to the grid network or as a standalone with 4 working modes: battery discharging to grid, battery charging by grid, battery discharging to load and PV to battery or AC output or both, housed inside metallic enclosure for indoor use]

**Trade Name or Mark:** Sinexcel

**Ratings:** **Battery: Battery type:** Lead-acid/lithium battery, Rated battery voltage: 600Vd.c, Battery voltage range: 150Vd.c to 750Vd.c, Maximum charge/discharge current: 90Ad.c, Maximum charge/discharge power: 30kW. **DC link:** DC link voltage range: 700Vd.c to 830Vd.c, DC link maximum continuous current: 65Ad.c, DC link maximum continuous power: 45kW. **AC terminal (Grid model):** Rated voltage: 230/400Va.c, Rated input/output current: 43.2Aa.c, Maximum continuous input/output current: 43.2Aa.c, Frequency: 50Hz, Rated input/output apparent power: 29.9kVA, Maximum input/output apparent power: 29.9kVA, Power factor: 0.9 leading to 0.9 lagging. **AC terminal (Stand-alone model):** Rated voltage: 230/400Va.c, Rated current: 43.2Aa.c, Maximum continuous current: 43.2Aa.c, Frequency: 50Hz, Rated apparent power: 29.9kVA, Maximum apparent power: 29.9kVA, Power factor: 0.9 leading to 0.9 lagging  
Enclosure protection: IP20, Protective class: I, DC overvoltage Category: II, AC overvoltage Category: III, Inverter topology: Non-isolated, Operation temperature: -20 degree C to +60 degree C (>45 degree C power derating)

**Type Reference Code:** PWS2-29P-EX

**Examined for Compliance With:** IEC 62109-1:2010; IEC 62109-2:2011; IEC62477-1:2012 + A1; AS/NZS 4777.2:2020

**Nominated Marking:** CS11124N or approved alternate mark

**Date of Approval:** 14/10/2022

**Approval Expires:** 14/10/2027 unless suspended, cancelled, renewed or extended

**Condition: 1. This certificate is issued subject to the article and approved variations being maintained at the specification/s of the article examined at the time of approval. 2. The assessment is based on electrical safety standards, compliance with performance requirements is excluded from the assessment.**

14 October 2022



On behalf of the Secretary, Department of Customer Service

For information regarding currency of model approval, refer to the Fair Trading Website



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File Ref: CS11124N  
Contact: Admin Clerk  
Telephone: 02 9895 0722

Ms IRENE FENG  
Shenzhen Sinexcel Electric Co., Ltd.  
C/- TUV SUD CERTIFICATION AND TESTING  
(CHINA) CO., LTD. GUANGZHOU BRANCH  
5F, COMMUNICATION BUILDING, 163 PINGYUN RD  
HUANGPU AVE. WEST, GUANGZHOU  
China 510656

Dear Sir/Madam

CERTIFICATE OF SUITABILITY: CS11124N AND VARIATION/S

Inverter

Please find enclosed a Certificate of Suitability and addendum as sought by your application.

Articles of the approved type may be marked with the mark (or alternate approval mark) shown on the Certificate.

THE APPROVAL EXPIRES ON THE DATE SHOWN ON THE CERTIFICATE unless it is renewed, extended, suspended or cancelled.

Yours faithfully

14 October 2022

For Secretary, Department of Customer Service





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Ref: CS11124/1

## ADDENDUM TO CERTIFICATE OF SUITABILITY: CS11124N Particulars of Modification(s)

Model No. PWS2-30P-EX being similar to approved Model No. PWS2-29P-EX except for:

**AC terminal (Grid model):**

Rated input/output current: 43.3Aa.c

Maximum continuous input/output current: 47.6Aa.c

Rated input/output apparent power: 30kVA

Maximum input/output apparent power: 33kVA

**AC terminal (Stand-alone model):**

Rated current: 43.3Aa.c

Maximum continuous current: 47.6Aa.c

Rated apparent power: 30kVA

Maximum apparent power: 33kVA

This certificate will expire on 14/10/2027

Approved pursuant to Clause 15 (1) of the Gas and Electricity (Consumer Safety) Regulation 2018:  
14 October 2022

14 October 2022

For Secretary, Department of Customer Service