



Fair
Trading

Certificate of Suitability Non-Declared Article

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

Certificate Number: **CS11135N**

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:	Altenergy Power Systems Inc.
Article:	Power Conversion System [Power Conversion System to work with Li-ion batteries to convert direct current generated by batteries into single phase 230 V, 50 Hz alternative current for feeding into AC grid port or Back-up output port (standalone mode only for equipment) and the battery port also charged by the energy from AC grid port, complete with isolation transformer between battery circuit and AC output circuit, EMC filtering at the output side towards mains or Back-up output port housed inside metallic enclosure for outdoor use]
Trade Name or Mark:	APstorage
Ratings:	AC Output Data (On-Grid): Maximum Continuous Output Power(ac): 3680VA, Maximum Continuous Output Current (ac): 16A, Nominal Output Voltage(ac): 230V, Nominal Output Frequency(ac): 50Hz, Output power factor rating: Adjustable from 0.8 leading to 0.8 lagging, AC Output Data (Backup): Maximum Output Apparent Power: 3680VA, Peak Output Apparent Power: 5520VA (10s), Maximum Output Current: 16A, Nominal Output Voltage: 230V, Nominal Output Frequency: 50Hz Battery Input /Output Data: Range of Input/Output Operating Voltage (dc): 40.0-60.0VDC, Maximum Input/Output Current (dc): 77A, General Specification: Temperature Range: -25 degree C to +65 degree C, Ingress Protection: IP65, Class I, Inverter Topology: Isolated, Over Voltage Category: III (MAINS), II (Battery)
Type Reference Code:	ELS-3K
Examined for Compliance With:	IEC 62109-1:2010; IEC 62109-2:2011; AS/NZS 4777.2:2020+A1; IEC 62040-1:2017 & IEC 62477-1:2012+AMD1:2016
Nominated Marking:	CS11135N or approved alternate mark
Date of Approval:	02/12/2022
Approval Expires:	02/12/2027 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.

9 December 2022



On behalf of the Secretary, Department of Customer Service

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



Fair
Trading

Ref: CS11135/1

ADDENDUM TO CERTIFICATE OF SUITABILITY: CS11135N
Particulars of Modification(s)

Model No. ELS-5K being similar to approved Model No. ELS-3K except for the following ratings:
AC Output Data (On-Grid): Maximum Continuous Output Power(ac): 5000VA, Maximum Continuous Output Current (ac): 21.7A
AC Output Data (Backup): Maximum Output Apparent Power: 5000VA, Peak Output Apparent Power: 7500VA (10s), Maximum Output Current: 21.7A
Battery Input /Output Data: Maximum Input/Output Current (dc): 100A

This certificate will expire on 02/12/2027

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

6 December 2022

For Secretary, Department of Customer Service