Certificate of Compliance

Certificate: 80199918 **Master Contract:** 303775

Project: 80230611 **Date Issued:** 2025-01-24

Issued To: **Anker Innovations Limited**
Room 1318-19,
Hollywood Plaza,
610 Nathan Road
Mongkok, Kowloon 528400
Hongkong

Attention: Wilson Zhu

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Issued by: Elly Ai
Elly Ai

PRODUCTS

CLASS 3701-08 - BATTERIES - Electrical Energy Storage System
CLASS 3701-88 - BATTERIES - Electrical Energy Storage System - Certified to US Standard

Li-ion Battery Energy Storage System, Models X1-P6K-B05-US, X1-P6K-B10-US, X1-P6K-B15-US, X1-P6K-B20-US, X1-P6K-B25-US and X1-P6K-B30-US. Refer to table 1 for the ratings of the energy storage system.

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Refer to following table for component of Pre-Engineered of Matched Component ESS.

Model/Component	ESS Model:					
	X1-P6K-B05-US	X1-P6K-B10-US	X1-P6K-B15-US	X1-P6K-B20-US	X1-P6K-B25-US	X1-P6K-B30-US
Power Conversion Equipment, Model: X1-P6K-US, quantity:	1	1	1	1	1	1
Battery System, Model: X1-B5-H, quantity:	1	2	3	4	5	6

Table 1

Rating/Model	ESS Model: X1-P6K-B05-US, X1-P6K-B10-US, X1-P6K-B15-US, X1-P6K-B20-US, X1-P6K-B25-US and X1-P6K-B30-US
Main ESS Rating	
Output current (maximum continuous) for each power port (Amps)	12.5A for X1-P6K-B05-US; 25A for other models
Input current (maximum continuous) for each power port (Amps)	12.5A for X1-P6K-B05-US; 25A for other models
Output voltage (minimum and maximum) for each power port (Volts)	211.2 - 264 Va.c.
Input voltage (minimum and maximum) for each power port (Volts)	211.2 - 264 Va.c.
Power input (maximum continuous) for each power port	3kW for X1-P6K-B05-US; 6kW for other models
Power output (maximum continuous) for each power port	3kW for X1-P6K-B05-US; 6kW for other models
Energy storage capacity (maximum) (kWh)	X1-P6K-B05-US: 5kWh X1-P6K-B10-US: 10kWh X1-P6K-B15-US: 15kWh X1-P6K-B20-US: 20kWh X1-P6K-B25-US: 25kWh X1-P6K-B30-US: 30kWh
Frequency (Hz)	60Hz
Number of phases	Split Phase
Input short-circuits current rating (SCCR)	968.0 Apk, 36.0 Arms @ 204.2 ms
Maximum overcurrent protective device rating (Amps)	Not less than 35 Aac
Output available fault current and time duration	970.0 Apk, 98.6 Arms @ 13.5 ms
Other Rating	
ESS Identification	AC ESS
ESS Type	Multi part ESS, the Main Label is on the PCS

Operating ambient temperature (°C)	**-20~55°C**
Weight of system (lbs)	**X1-P6K-B05-US: 164 lbs** **X1-P6K-B10-US: 277 lbs** **X1-P6K-B15-US: 389 lbs** **X1-P6K-B20-US: 514 lbs** **X1-P6K-B25-US: 626 lbs** **X1-P6K-B30-US: 739 lbs**
Overall dimension of the system, W x D x H(mm)	**X1-P6K-B05-US: 670×765×150** **X1-P6K-B10-US: 670×1125×150** **X1-P6K-B15-US: 670×1485×150** **X1-P6K-B20-US: 670×1125×150 + 670×842×150** **X1-P6K-B25-US: 670×1485×150+670×842×150** **X1-P6K-B30-US: 670×1485×150+670×1202×150**
Environmental rating of Enclosure	**TYPE 4**
Maximum altitude (m)	**4000m**
Pollution degree	**2**
Overvoltage Category	**IV**
Technology utilized in system	**lithium ion**
Minimum separation distances (mm)	**From other ESS/Battery System: 300mm** **From exposures (e.g. combustibles, structures): 300mm** **From openings (e.g. windows, doors, HVAC inlets or other operable openings): 300mm**

Model difference:
Battery system models X1-P6K-B05-US, X1-P6K-B10-US, X1-P6K-B15-US, X1-P6K-B20-US, X1-P6K-B25-US and X1-P6K-B30-US are identical to each other except for the system capacity and module numbers connected in parallel.

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Conditions of Acceptability:

1. The acceptability of grid support utility interactive inverters shall be determined by the local electric utility.
2. The installation was not evaluated. The ESS shall be installed in accordance with applicable local installation code.
3. The system was intended for indoor/outdoor use without arc flash risk considered and is not designed for used in seismic regions.
4. Based on the result and test condition/method in the UL 9540A report, the acceptability shall be determined by the local AHJ according to the real installation.
5. **The ESS will be installed on site using inverter, battery system and the components specified in this report, refer to CSA report No. 80176279 for the detailed ratings of the battery system, and CSA report 80176278 for the detailed ratings of the inverter.**
6. **Battery System and PCS integrate into an ESS need to use within the operating parameter of individual component rating. Installation of ESS shall evaluate all components used within the operating parameter used during certification of PCS and Battery system.**
7. **For Li-ion Battery Energy Storage System, the output ratings at stand-alone mode with charge controller are different from utility interactive mode.**
8. **Remote update function for safety related software has not been evaluated to UL 5500, further evaluation needs to be considered if remote updated function needed.**

APPLICABLE REQUIREMENTS

ANSI/UL 9540:2023 - Energy Storage Systems and Equipment, Third Edition, Dated June 28, 2023

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

The markings shall be legibly and permanently marked with:

1. The product listed are eligible to bear CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US:
2. Energy Storage system are to be marked with the manufacturer's name, trade name, trademark, CSA master contract number "303775" or other descriptive marking which may identify the organization responsible for the product.
3. Part number or Model number; as specified in PRODUCT Section above.
4. AC ESS as specified in PRODUCT Section above.
5. Electrical ratings and other ratings as below:
   a) Output and input current (maximum) in Amps; as specified in PRODUCT Section above.
   b) Output and input voltage (minimum and maximum) in Volts; as specified in PRODUCT Section above.
   c) Power input and output (maximum) in W or VA; as specified in PRODUCT Section above.
   d) Energy output in Wh (maximum); as specified in PRODUCT Section above.
   e) Number of phases (for input and output); as specified in PRODUCT Section above.
   f) Frequency in Hz; as specified in PRODUCT Section above.
   g) Input short-circuits current rating (SCCR) in A / kA.
   h) Maximum overcurrent protective device rating in Amps.
   i) Output available fault current (as defined in Article 100 of NFPA 70) and time duration that the equipment can provide.
   j) Ambient temperature range in °C or °F; as specified in PRODUCT Section above.
   k) Special environmental ratings and limitations as applicable (e.g. seismic, indoor/outdoor only, etc.);
   l) The weight of the system in kilograms or pounds, and the overall dimensions of the system can either be marked on the system or provided in the installation instructions.
   m) Technology utilized in system (e.g. lithium ion, nickel cadmium, flywheel storage); as specified in PRODUCT Section above.
6. For multi-part ESS, a nameplate marking (main label) shall be provided on at least one of the parts and shall identify that the system has been evaluated as a multi-part ESS. Each separate part of the multi-part

ESS shall have a nameplate marking as required by the equipment safety standard to which it was evaluated.

7. The following information shall be included in the ESS installation instructions as applicable to the ESS:
   a) Single-line electrical diagram of the ESS identifying all interconnections and ports.
   b) Input short circuit current rating (SCCR) in A / kA that each component can withstand from other parts of the ESS if the connection point is a power input or bi-direction power connection; and
   c) Available fault current (as defined in Article 100 of NFPA 70) and time duration that the ESS part can provide to other parts of the ESS if the connection point is a power output or bi-directional power connection.
8. Contact information for the system in the event of an emergency or problems with the system;
9. "Suitable for Use in Residential Non-Habitable Spaces" shall marked for residential ESS not in a dwelling unit as specified in Product Section above.
10. Date of Manufacturer (permitted to be in the form of a code), not repeat within 20 years;
11. Identification of all external terminals and connections;
12. Charger earth grounding system marking. Identified by the word “Ground” or the letters “G” or “GR” or the grounding symbol IEC 60417 Database, No. 5019 (upside down tree within a circle) or otherwise identified by a distinctive green color;
13. Hazardous voltage circuit marking. “WARNING: Hazardous Voltage Circuits” or be marked with the electric shock hazard symbol ISO 3864 No. 5036(lightning bolt within a triangle);
14. “WARNING: To Reduce the Risk of Injury, read all instructions” or marked with the symbols W001 (i.e. exclamation point in triangle) and M002 of the Standard for Graphical Symbols – Safety Colors and Safety Signs – Registered Safety Signs, ISO 7010;
15. ESS Enclosure environmental ratings; as specified in PRODUCT Section above.
16. **The control devices and indicators required for operation or maintenance shall be marked with their function on or adjacent to the control.**

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Notes:

Products certified under Class C370108, C370188 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80199918	2024-02-08	ANSI/CAN/UL 9540:2020 Ed 2 with Rev Apr 9, 2021 Original Certification for Li-ion Battery Energy Storage System, (Pre-Engineered of Matched Component), Model X1-P6K-B05-US, X1-P6K-B10-US, X1-P6K-B15-US, X1-P6K-B20-US, X1-P6K-B25-US, X1-P6K-B30-US.
80230611	2025-01-24	Update report with the changes below: 1. Update standard to ANSI/CAN/UL 9540:2023 Ed 3 with Rev June 28, 2023; 2. Add installation config to model X1-P6K-B30-US; 3. Update the Nameplate adhesive label material. 4. Battery system and PCS report updated in subassembly projects 80230616 and 80230615 respectively.