



Certificate of Compliance

Certificate: 80211057

Master Contract: 301950

Project: 80250174

Date Issued: 2025-05-20

Issued To: FranklinWH Energy Storage Inc.
8 The Green, Ste A
Dover, Delaware 19901
United States
Attention: Kevin Song

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: Ky Huang
Ky Huang



PRODUCTS

CLASS - C3701 08 - BATTERIES – Electrical Energy Storage System

CLASS - C3701 88 - BATTERIES – Electrical Energy Storage System - Certified to US Standard

AC Li-ion Battery Energy Storage System (AC ESS), Models aPower Xyyy, aPower Syyy (“y” in the model name could be A-Z, 0-9, symbol “-” or blank, which is for market purpose only and no technical difference.). ESS Models aPower Xyyy and aPower Syyy are the same, except for the Power Conversion System they used with are different, refer to Report 80211051, Pro#**80246154** for the details of the PCS.

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

Component	Function
Battery module	Part of aPower Xyyy, aPower Syyy
Power Conversion Equipment (PCS)	Part of aPower Xyyy, aPower Syyy
Wiring connection compartment	Part of aPower Xyyy, aPower Syyy
Smart switch (Power distribution unit)	Model aGate Xyyy, control of the operation of aPower Xyyy, aPower Syyy



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Electrical Ratings:

Refer to below table for the ratings of the Battery Energy Storage System:

Rating/Model	ESS Model:
	aPower Xyyy, aPower Syyy
Main ESS Rating	
Output current (maximum continuous) for each power port (Amps)	AC port Output: 48A
Input current (maximum continuous) for each power port (Amps)	AC port Input: 38A
Output voltage (minimum and maximum) for each power port (Volts)	AC port Output: 120/240V, 120/208V (L1, L2, N)
Input voltage (minimum and maximum) for each power port (Volts)	AC port Input: 120/240V, 120/208V (L1, L2, N)
Power input (maximum continuous) for each power port (W/kW or VA/kVA)	AC port Input: 9200 VA (L-L)
Power output (maximum continuous) for each power port (W/kW or VA/kVA)	AC port Output: 5750 VA (L-N), 11500 VA (L-L)
Energy storage capacity (maximum) (Wh/kWh)	15kWh
Frequency (Hz) (Indicate if main input/output is DC)	AC port Input/Output: 60Hz
Number of phases for each power port	AC port Input or Output: split phase with neutral or without neutral
Input short-circuits current rating (SCCR) (A/kA)	950A
Maximum overcurrent protective device rating (Amps)	200A
Output available fault current and time duration (A/kA and Second/Mili-Second)	950A / 50ms

Other Rating	
ESS Identification	AC ESS
ESS Type	Multipart ESS
Operating ambient temperature (°C)	Inverter: -20°C ~ 50°C, derating above at +40°C. Battery System: 0°C ~ 50°C (Charge); -20°C ~ 50°C (Discharge)
Weight of system (kg)	aPower Xyyy: Approx. 162kg (PCS + Battery Module); aPower Syyy: Approx. 173kg (PCS + Battery Module); aGate Xyyy: Approx. 17.5kg (Smart switch)
Overall dimension of the system (mm)	aPower Xyyy, aPower Syyy: 750mm(W) × 1148mm(H) × 307.8mm(T); aGate Xyyy: 800mm(W) × 550mm(H) × 160mm(T)
Environmental rating of Enclosure	aPower Xyyy: IP67 for Battery Module and PCS, and IP56 for Connection compartment.



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	aPower Syyy: IP67 for Battery Module and PCS, and IP55 for Connection compartment. aGate Xyyy: Type 3R
Maximum altitude (m)	3000
Pollution degree	2
Overvoltage Category	AC Port: IV
Technology utilized in system	Li-ion (LFP)
Minimum separation distances (mm)	From other ESS/Battery System: 4inch From ceiling: 6inch From the ground: < 42inch (aPower Xyyy, aPower Syyy), 48inch to 52 inch (aGate Xyyy) From back wall: 4mm From side wall: 4inch

Note:

1. The ESS will be installed on site using power distribution unit, battery system and the components specified in this report. Battery system ratings details refer to CSA report 80211054. And inverter rating details refer to CSA report 80211051.
2. The operating parameter such as voltage, current, temperature, environmental conditions etc. of ESS are not determined during this investigation. 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 component used within the operating parameter used during certification of PCS and Battery system.
3. For Li-ion Battery Energy Storage System, the output ratings at stand-alone mode with charge controller are different from utility interactive mode.
4. Ratings for Seismic was not declared, additional evaluation may be needed for system to be installed in these areas.
5. The AC circuit breaker connected in the grid port will be considered by the end product user when installation.
6. 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.

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 not walk-in system without arc flash risk considered.
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.

APPLICABLE REQUIREMENTS

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



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MARKINGS

See CSA report.

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
80250174	2025-05-20	<p>Update report 80211057 of AC Energy Storage System (AC ESS), Model aPower Xyyy, aPower Syyy ("y" in the model name could be A-Z, 0-9, symbol "-" or blank, which is for market purpose only and no technical difference.) to include the following item under WMTC test program:</p> <p>1. The Power Conversion System on the top of the Battery System was updated (See CSA Report 80211051, Pro#80246154), and the Battery System was also updated (See CSA Report 80211054, Pro#80211056), so the Energy Storage System report was updated accordingly.</p>
80250174	2025-01-15	<p>Update report 80211057 of AC Energy Storage System (AC ESS), Model aPower Xyyy, aPower Syyy ("y" in the model name could be A-Z, 0-9, symbol "-" or blank, which is for market purpose only and no technical difference.) to include the following item under WMTC test program:</p> <p>1. The Power Conversion System on the top of the Battery System was added one alternate Model aPower Syyy (See CSA Report 80211051, Pro#80232406), so the Energy Storage System report was updated accordingly.</p>
80211057	2024-09-30	<p>ANSI/CAN/UL 9540 Third Edition, Dated June 28, 2023, Original certification for AC Energy Storage System (AC ESS), Model aPower Xyyy ("y" in the model name could be A-Z, 0-9, symbol "-" or blank, which is for market purpose only and no technical difference.) under WMTC test program.</p>