



Certificate of Compliance

Certificate: 80211051
Project: 80275919
Issued To: FranklinWH Energy Storage Inc.
8 The Green, Ste A,
Dover, Delaware 19901,
United States

Master Contract: 301950
Date Issued: Dec. 12, 2025

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: Hanson Yao

Hanson Yao.

PRODUCTS

CLASS - C531109 - POWER SUPPLIES Distributed Generation Power Systems Equipment
CLASS - C531189 - POWER SUPPLIES - Distributed Generation Power Systems Equipment - Certified to U.S. Standards

Product family	Grid support utility-interactive Power Conversion System (PCS)	
	aPower Xyyy (with Battery input)	aPower Syyy (with Battery and PV input)
	Note: “yyy” representative variable, “y”=A-Z, 0-9, symbol “-” or blank.	
Notes: For details related to ratings, size, configuration, etc., reference should be made to the CSA Certification Record, Certificate of Compliance - Annex A, or the Descriptive Report.		



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APPLICABLE REQUIREMENTS

CSA C22.2 No. 107.1-16	-	Power conversion equipment
UL 1741	-	Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources (Third Edition, May 19, 2023)
UL 1741 CRD	-	Clarification of Multi-Mode Inverter Requirements Including Supply Conductor Grounding (Dated April 07, 2023)
UL 1741 CRD	-	Power Control System (PCS) (issued on April 8, 2023)
UL 3141	-	Outline of Investigation for Power Control Systems (Issue Number 2, October 9, 2024)
UL 1741 CRD	-	Non-Isolated EPS Interactive PV Inverters Rated Less Than 30 kVA (Dated April 26, 2010)
UL 1699B	-	Photovoltaic (PV) DC Arc-Fault Circuit Protection (First Edition, Dated August 22, 2018)
CSA C22.2 No. 292-18	-	DC arc fault protection for photovoltaic applications
CSA C22.2 No. 330-17	-	Photovoltaic rapid shutdown systems

Note:

- (1) Conformity to UL 1741 (Third Edition, May 19, 2023) includes compliance with applicable requirements of UL 1741 Supplement SB, IEEE Std 1547™-2018, IEEE Std 1547.1™-2020 and the SRDs of Hawaiian Electric Co. (HECO) SRD-V2.0. The interoperability is verified with IEEE 2030.5-2018 communication protocol.
- (2) The products have been verified with PVRSS function according to NEC-2020 (NFPA 70) Article 690.12 and CEC-2021 (CSA C22.1:21) Sec 64-218.
- (3) The functional safety has been evaluated according to applicable requirement of UL 1998 (Edition 3) and UL 991 (Edition 3) as required by the end products standard.
- (4) Evaluated Export Only Mode and Import Only Mode according to Std. UL 1741 CRD – PCS; Evaluated Net Energy Metering (NEM) Integrity Mode according to Std. UL 3141 – PCS. For more details related to Power Control System (PCS) modes, refer to Certificate of Compliance - Annex A.
- (5) Evaluated the below combination according to the standard UL 1741 Multi-Mode CRD:
 - i. aPower Syyy (or aPower Xyyy) & aGate X;
 - ii. aPower Syyy (or aPower Xyyy) & MACyyy & Meter Socket Adapter (Model: MIM 200 PLUS PE).

Notes:

Products certified under Class C531109 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

Certificate: 80211051

Master Contract: 301950

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
80275919	2025-12-12	Based on previous Project 80275913, with below modifications: (1) Updated the software and hardware to match with the new PVRSE (Receiver device model No.: RSDV1, Transmitter device model No.: SP-APR S20-INTERNAL TRANSMITTER-US & RSD Transmitter-1, CSA file: 80259146) for product family aPower Syyy. (2) Added both new combination: i. aPower Syyy & MAC-20 (CSA file: 80275918); ii. aPower Xyyy & MAC-20. (3) Evaluated the Export Only Mode, Import Only Mode and Net Energy Metering (NEM) Integrity Mode for new combination according to the relevant standard.
80275913	2025-11-19	Based on previous Project 80268411, with below modifications: Increased the maximum output power which from 10kw to 11.5kw for product family aPower Syyy, and evaluated the relevant test according to applicable standards.
80268411	2025-09-23	Based on previous Project 80258306, with below modifications: (1) Modify the definition of “yyy” for product family aPower Xyyy & aPower Syyy. (2) Added a new model aPower X-21 for product family aPower Xyyy. For the new model aPower X-21, the maximum output power increased and relevant test according to applicable standards are evaluated in this project.



80258306	2025-08-12	<p>Based on previous Project 80258305, with below modifications:</p> <ol style="list-style-type: none">(1) Evaluate the Net Energy Metering (NEM) Integrity Mode for below combination:<ol style="list-style-type: none">i. aPower Xyyy & aGate X & aHub;ii. aPower Xyyy & MACyyy & Meter Socket Adapter & aHub.(2) Add an optional certified accessory (aHub) for distribution panel board (aGate X), verify the Power Control System function with this new added accessory.(3) Add three power ranges respectively for models aPower Xyyy and aPower Syyy: 5.0kw, 7.6kw, 9.6kw.
80258305	2025-07-17	<p>Based on previous Project 80249228, with below modifications:</p> <ol style="list-style-type: none">(1) Evaluate the Net Energy Metering (NEM) Integrity Mode with the Legacy generation connected to the supply side of the service disconnecting means.(2) Add a new combination: aPower Syyy with MACyyy (certified by CSA), evaluate the power control system function and Grid Support function for this new combination.(3) Add an optional certified accessory (aPbox) only for distribution panel board (aGate X), verify the Power Control System function with this new added accessory.(4) Add an optional certified accessory (aHub) only for meter adapter controller (MACyyy), verify the Power Control System function with this new added accessory.(5) Add an alternative certified meter socket adapter (Model: V-1-A-6, V-1-A-X) only for meter adapter controller (MACyyy), evaluate the Power Control System function with this alternate MSA.(6) Update the labels for models aPower Xyyy and aPower Syyy, evaluated relevant test. <p>For the above combinations, refer to the Annex A and report for more details.</p>
80249228	2025-06-28	<p>Based on previous Project 80258304, with below modifications:</p> <ol style="list-style-type: none">(1) Add a new standard UL 1741 Multi-Mode CRD evaluation for below combination:<ol style="list-style-type: none">i. aPower Syyy (or aPower Xyyy) & aGate X;ii. aPower Syyy (or aPower Xyyy) & MACyyy & Meter Socket Adapter (Model: MIM 200 PLUS PE).
80258304	2025-06-17	<p>Based on previous Project 80246154, with below modifications:</p> <ol style="list-style-type: none">(1) Add a new operation mode: Net Energy Metering (NEM) Integrity Mode for the combination of aPower Xyyy & aGate X & aPbox (Model: RC65, RM65). Evaluate the NEM mode according to UL 3141-PCS (Issue number 2, October 9, 2024)(2) Add a table in Annex A to describe the certified Power Control System (PCS) modes and combinations.



80246154

2025-04-09

Based on previous project 80232406, with below modifications:

- (1) Evaluated two operating modes (Export only mode & Import only mode) for model aPower Syyy in combination with aGate X according to Std. UL 1741 CRD - PCS;
- (2) Add a new enclosure structure for model aPower Xyyy;
- (3) Add a new combination: aPower Xyyy with MACyyy (certified by CSA), evaluated additional test according to the relevant standard.
- (4) Add a new standard UL 3141 - PCS evaluation which is similar with UL 1741 CRD - PCS, so there is no additional test necessary.
- (5) Correct the parameter error on the label of models aPower Xyyy and aPower Syyy, no technical change.
- (6) Updated the attachments and refer to the descriptive report with bold text for more details.

WMTC to Test facility (1):

Name: FranklinWH Technologies Co., Ltd.

Address: Room 301, Building 5A Skyworth, Innovation Park, No.8 Tangtou 1st Road, Tangtou community Shiyan sub-district, Baoan District, Shenzhen, Guangdong, 518101, China.

WMTC to Test facility (2):

Name: Shenzhen Chengxin Technology Service Co., Ltd.

Address: No.13, Aiqun Road, Shiyan Street, Baoan District, Shenzhen, Guangdong, 518101, China.

80232406

2024-12-27

Based on previous project 80211052, with below modifications:

- (1) Added a new model aPower Syyy, which was additionally equipped with PV function (PV board Part No.: FPCS1600AM3) based on the certified model aPower Xyyy, and evaluated additional test according to the relevant standard.
- (2) Updated all attachments for new model aPower Syyy, refer to the attachments for more details.
- (3) Updated some description content with bold text.

WMTC to Test facility (1):

Name: FranklinWH Technologies Co., Ltd.

Address: Room 301, Building 5A Skyworth, Innovation Park, No.8 Tangtou 1st Road, Tangtou community Shiyan sub-district, Baoan District, Shenzhen, Guangdong, 518101, China.

WMTC to Test facility (2):

Name: Shenzhen Chengxin Technology Service Co., Ltd.

Address: No.13, Aiqun Road, Shiyan Street, Baoan District, Shenzhen, Guangdong, 518101, China.



WMTC to Test facility (3):

Name: Dongguan BALUN Testing Technology Co., Ltd.

Address: Room 104, 204, 205, Building 1, No. 6, Industrial South Road, Songshan Lake District, Dongguan, Guangdong Province, P.R. China.

80211052	2024-10-29	Based on original Project 80211051, with below modifications: (1) Standards updated to comply with UL 1741 CRD (issued on April 8, 2023) – Power Control System (PCS); (2) Evaluated two operating modes according to UL 1741 CRD - PCS: Export only mode & Import only mode.
80211051	2024-09-05	Bi-directional Power Converter System (Grid Support Utility Interactive Inverter), integrated in Energy Storage System, for used with external smart switch. Power Converter System, Model: aPower Xyyy (“yyy” representative variable, “y”=A-Z, 0-9, symbol “-” or blank; for market purpose only, no technical difference.) WMTC to Test facility (1): Name: FranklinWH Technologies Co., Ltd. Address: Room 301, Building 5A Skyworth, Innovation Park, No.8 Tangtou 1 st Road, Tangtou community Shiyan sub-district, Baoan District, Shenzhen, Guangdong, 518101, China. WMTC to Test facility (2): Name: Shenzhen Chengxin Technology Service Co., Ltd. Address: No.13, Aiqun Road, Shiyan Street, Baoan District, Shenzhen, Guangdong, 518101, China.