



# Certificate of Compliance

**Certificate:** 80182818

**Master Contract:** 302680

**Project:** 80182818

**Date Issued:** 2024-04-16

**Issued To:** **FOXESS CO., LTD.**  
**No.939, Jinhai Third Road,**  
**New Airport Industry Area,**  
**Longwan District**  
**Wenzhou, Zhejiang, 325025**  
**China**

**Attention:** Yong Zhou

*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:** Evan Zhang  
*Evan Zhang*

## **PRODUCTS**

CLASS - C370108 - BATTERIES Electrical Energy Storage System

CLASS - C370188 - BATTERIES Electrical Energy Storage System - Certified to US Standard

AC ESS, Li-ion battery chemistry, Model US1H -X-EQLY and US1AC-X-EQLY series, .

Nomenclature: The BESS models were integrated with one inverter and one batteries system only. see below for the BESS model and battery system nomenclatures.

### **US 1H -X-EQLY**

**A  B  C  D**

A: indicates inverter type, can be H or AC, where “H” indicate hybrid type, while “AC” indicates AC type.

B: x indicates the inverter rating, can be 3.8, 5.7, 7.6, 9.6 and 11.4, where 3.8 indicates 3.8kW.

C: EQL indicate the battery model;

D: Y indicates the battery module quantities, can be 2, 3,4, 5, 6 and 7.



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Model/Component	ESS Model: US1H -X-EQLY Series				
Power Conversion Equipment	Model: AIO-H1-3.8-US (Quantity: 1)	Model:AIO-H1-5.7-US (Quantity:1)	Model:AIO-H1-7.6-US (Quantity:1)	Model:AIO-H1-9.6-US (Quantity: 1)	Model:AIO-H1-11.4-US (Quantity: 1)
Battery System	Model EQ4000 (Quantity: 2~7)				
Other (Add as needed)	N/A				

Model/Component	ESS Model: US1AC-X-EQLY series				
Power Conversion Equipment	Model: AIO-AC1-3.8-US (Quantity: 1)	Model:AIO-AC1-5.7-US (Quantity:1)	Model:AIO-AC1-7.6-US (Quantity: 1)	Model:AIO-AC1-9.6-US (Quantity:1)	Model:AIO-AC1-11.4-US (Quantity: 1)
Battery System	Model EQ4000 (Quantity: 2~7)				
Other (Add as needed)	N/A				

The BESS system ratings were indicated as below:

BESS						
Model:	US1H -X-EQLY, US1AC-X-EQLY					
<b>PV Input Rating(for US1H -X-EQLY series only) :</b>						
PV DC Max System Voltage, Vdc	600					
PV DC Operating Voltage, Vdc	80~550					
PV Max Input Current, A	28/14			28/14/14		
Maximum Short Circuit Current Per MPPT, A	44/22			44/22/22		
Numbers of MPPT Trackers	2			3		
<b>Battery:</b>						
Battery Useable Energy, kWh	7.94	11.91	15.88	19.85	23.82	27.79
Battery Nominal Voltage, Vdc	104.4~459.9					
Battery Operating Voltage Range, Vdc	104.4~459.9					
Battery Max Current, A	Charging: 50A, Discharging: 50A					
Battery Nominal I/O Power, W	See note 1					
<b>AC Port (On Grid)</b>						
AC Nominal Operating Voltage, Vac	240	240	240	240	240	
Max. Input Current (A)	16	24	32	40	48	
AC Max Continuous Input/Output Current, A	15.8	23.8	31.7	40	47.5	
AC Max Continuous Output Power, kW	3.8	5.7	7.6	9.6	11.4	
AC Nominal Operating Frequency, Hz	60					
AC Operating Frequency Range, Hz	57~63					
<b>AC Port (Off Grid)</b>						



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AC Port Output Voltage, Vac	120/240			120/240	
Maximum Continuous Current, A	17.4	26.1	34.8	44	52.3
Operating Frequency Range, Hz	60				
Max Short Circuit Current/Duration, A/S	460A@37.187mS				
<b>Special Environmental Ratings and Limitations</b>					
Enclosure Rating	Indoor/Outdoor, type 4X for inverter; IP 65 for battery				
Ambient Temperature, ° C	-10~55(optimum operating temperature: 0~30)				
Seismic	-				
Suppression System	-				
Technology Utilized in System	Lithium-ion				

**Note:**

1. Max input/output power will be varied based on the inverter used: 5700W/4180W for inverter model AIO-H1-3.8-US, 8550W/6270W for inverter model AIO-H1-5.7-US, 11400W/8360W for inverter model AIO-H1-7.6-US, 14400W/10560W for inverter model AIO-H1-9.6-US, 17100W/12540W for inverter model AIO-H1-11.4-US; 3800W/4180W for inverter model AIO-AC1-3.8-US, 5700W/6270W for inverter model AIO-AC1-5.7-US, 7600W/8360W for inverter model AIO-AC1-7.6-US. 9600W/10560W for inverter model AIO-AC1-9.6-US, 11400W/12540W for inverter model AIO-AC1-11.4-US.
2. The ESS installation was not evaluated. Installation shall be implemented following the subassembly manufacturers' installation manual, national and local codes.
3. ESS was not evaluated for use in specialty environments including: marine and seismically active environments.
4. Based on the test result and 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 9540:2023 Energy Storage Systems and Equipment, 3<sup>rd</sup> edition, dated on Jun 28, 2023.

**MARKINGS**

N/A

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](http://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**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80182818	2024-04-16	Original certification for AC ESS, Li-ion battery chemistry, Model US1H -X-EQLY and US1AC-X-EQLY series.