



# Certificate of Compliance

**Certificate:** 80089801

**Master Contract:** 272687

**Project:** 80089801

**Date Issued:** 2022-04-22

**Issued To:** SolaX Power Network Technology (Zhe jiang) Co. , Ltd.  
No. 288 Shizhu Road,  
Tonglu Economic Development Zone  
Tonglu City, Zhejiang, 310000  
China

**Attention:** Jason Shen



**Issued by:** Joseph Zhou  
*Joseph Zhou*

## PRODUCTS

CLASS - C370184 - ELECTRICAL ENERGY STORAGE SYSTEMS Certified to US Standard

Li-ion Battery Energy Storage System (Pre-Engineered of Matched Component type), models A1-ESS-G2 series, consist of A1-HYB-G2 or A1-AC-G2 inverter series combined with T-BAT-SYS-HV-5.0 series battery system, the detailed model combination and ratings for the energy storage system were indicated as below:



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Table 1 ESS combinations and the Input Ratings for ESS with hybrid inverter A1-HYB-G2 series:

A1-ESS-G2 series Energy Storage System		ESS PV Input Ratings		
Inverter Model No.	Battery System Model No.	Max Current, A	Voltage Range, V	Input Power, W
A1-HYB-7.6K-G2	T-BAT H 10.0	16*3	235~500	11400
A1-HYB-7.6K-G2	T-BAT H 15.0	16*3	235~500	11400
A1-HYB-7.6K-G2	T-BAT H 20.0	16*3	235~500	11400
A1-HYB-6K-G2	T-BAT H 10.0	16*2	278~500	9000
A1-HYB-6K-G2	T-BAT H 15.0	16*2	278~500	9000
A1-HYB-6K-G2	T-BAT H 20.0	16*2	278~500	9000
A1-HYB-5K-G2	T-BAT H 10.0	16*2	232~500	7500
A1-HYB-5K-G2	T-BAT H 15.0	16*2	232~500	7500
A1-HYB-5K-G2	T-BAT H 20.0	16*2	232~500	7500
A1-HYB-3.8K-G2	T-BAT H 10.0	16*2	176~500	5700
A1-HYB-3.8K-G2	T-BAT H 15.0	16*2	176~500	5700
A1-HYB-3.8K-G2	T-BAT H 20.0	16*2	176~500	5700

Note: A1-ESS-G2 Series ESS may be provided with or without Backup Interface(BI), model A1-BI-200-G2, refer to construction part for the BI model ratings.



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Table 2 ESS Combinations and the Output Ratings for ESS with hybrid inverter A1-HYB-G2 series:

A1-ESS-G2 series Energy Storage System		ESS AC Output Rating							Energy, kWh
Inverter Model No.	Battery System Model No.	Max Current, A	Voltage Range, Vac	Output Power, VA	Input Phase	Frequency, Hz	Duty Cycle	Max Short Circuit, A	
A1-HYB-7.6K-G2	T-BAT H 10.0	31.7	120/240	7608	Single phase	60	-	48	10
A1-HYB-7.6K-G2	T-BAT H 15.0	31.7	120/240	7608	Single phase	60	-	48	15
A1-HYB-7.6K-G2	T-BAT H 20.0	31.7	120/240	7608	Single phase	60	-	48	20
A1-HYB-6K-G2	T-BAT H 10.0	25	120/240	6000	Single phase	60	-	48	10
A1-HYB-6K-G2	T-BAT H 15.0	25	120/240	6000	Single phase	60	-	48	15
A1-HYB-6K-G2	T-BAT H 20.0	25	120/240	6000	Single phase	60	-	48	20
A1-HYB-5K-G2	T-BAT H 10.0	20.9	120/240	5016	Single phase	60	-	48	10
A1-HYB-5K-G2	T-BAT H 15.0	20.9	120/240	5016	Single phase	60	-	48	15
A1-HYB-5K-G2	T-BAT H 20.0	20.9	120/240	5016	Single phase	60	-	48	20
A1-HYB-3.8K-G2	T-BAT H 10.0	15.9	120/240	3816	Single phase	60	-	48	10
A1-HYB-3.8K-G2	T-BAT H 15.0	15.9	120/240	3816	Single phase	60	-	48	15



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A1-HYB-3.8K-G2	T-BAT H 20.0	15.9	120/240	3816	Single phase	60	-	48	20
Note: A1-ESS-G2 Series ESS may be provided with or without Backup Interface(BI), model A1-BI-200-G2, refer to construction part for the BI model ratings.									

Table 3 ESS Combinations and the Input Ratings for ESS with energy storage inverter A1-AC-G2 series:

A1-ESS-G2 series Energy Storage System		ESS Grid Input Ratings				
Inverter Model No.	Battery System Model No.	Max Current, A	Voltage Range, V	Input Power, VA	Input Phase	Frequency, Hz
A1-AC-7.6K-G2	T-BAT H 10.0	31.7	120/240	7608	Split Phase	60
A1-AC-7.6K-G2	T-BAT H 15.0	31.7	120/240	7608	Split Phase	60
A1-AC-7.6K-G2	T-BAT H 20.0	31.7	120/240	7608	Split Phase	60
A1-AC-6K-G2	T-BAT H 10.0	25	120/240	6000	Split Phase	60
A1-AC-6K-G2	T-BAT H 15.0	25	120/240	6000	Split Phase	60
A1-AC-6K-G2	T-BAT H 20.0	25	120/240	6000	Split Phase	60
A1-AC-5K-G2	T-BAT H 10.0	20.9	120/240	5016	Split Phase	60
A1-AC-5K-G2	T-BAT H 15.0	20.9	120/240	5016	Split Phase	60
A1-AC-5K-G2	T-BAT H 20.0	20.9	120/240	5016	Split Phase	60
A1-AC-3.8K-G2	T-BAT H 10.0	15.9	120/240	3816	Split Phase	60
A1-AC-3.8K-G2	T-BAT H 15.0	15.9	120/240	3816	Split Phase	60
A1-AC-3.8K-G2	T-BAT H 20.0	15.9	120/240	3816	Split Phase	60
Note: A1-ESS-G2 Series ESS may be provided with or without Backup Interface(BI), model A1-BI-200-G2, refer to construction part for the BI model ratings.						



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Table 4 ESS Combinations and the Output Ratings for ESS with energy storage inverter A1-AC-G2 series:

A1-ESS-G2 series Energy Storage System		ESS AC Output Ratings							Energy, kWh
Inverter Series: A1-AC- G2	Battery System Model No.	Max Current, A	Voltage Range, Vac	Output Power, VA	Output Phase	Frequency, Hz	Duty Cycle	Max Short Circuit, A	
A1-AC-7.6K-G2	T-BAT H 10.0	31.7	120/240	7608	Split phase	60	-	48	10
A1-AC-7.6K-G2	T-BAT H 15.0	31.7	120/240	7608	Split phase	60	-	48	15
A1-AC-7.6K-G2	T-BAT H 20.0	31.7	120/240	7608	Split phase	60	-	48	20
A1-AC-6K-G2	T-BAT H 10.0	25	120/240	6000	Split phase	60	-	48	10
A1-AC-6K-G2	T-BAT H 15.0	25	120/240	6000	Split phase	60	-	48	15
A1-AC-6K-G2	T-BAT H 20.0	25	120/240	6000	Split phase	60	-	48	20
A1-AC-5K-G2	T-BAT H 10.0	20.9	120/240	5016	Split phase	60	-	48	10
A1-AC-5K-G2	T-BAT H 15.0	20.9	120/240	5016	Split phase	60	-	48	15
A1-AC-5K-G2	T-BAT H 20.0	20.9	120/240	5016	Split phase	60	-	48	20
A1-AC-3.8K-G2	T-BAT H 10.0	15.9	120/240	3816	Split phase	60	-	48	10
A1-AC-3.8K-G2	T-BAT H 15.0	15.9	120/240	3816	Split phase	60	-	48	15
A1-AC-3.8K-G2	T-BAT H 20.0	15.9	120/240	3816	Split phase	60	-	48	20

Note: A1-ESS-G2 Series ESS may be provided with or without Backup Interface(BI), model A1-BI-200-G2, refer to construction part for the BI model ratings



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Table 5: General Ratings for A1-ESS-G2 Series:

A1-ESS-G2 series Energy Storage System	
Operating Temperature, °C	Inverter: -20~60; Battery System: 0~53(Charge); -10~53(Discharge)
Auxiliary Rating,	-
Seismic Rating	-
Enclosure Rating	Inverter: Type 4X; Battery System: IP65
Weight, Kg	Inverter: 34
	Battery System 14.5+54*n(where n can be 2, 3 or 4)
Suppression System	-
Technology	Li-ion

**Note:**

1. Inverter models A1-AC-7.6K-G2, A1-AC-6K-G2, A1-AC-5K-G2 and A1-AC-3.8K-G2 are pure energy storage inverters, and have the same ratings with A1-HYB-7.6K-G2, A1-HYB-6K-G2, A1-HYB-5K-G2 and A1-HYB-3.8K-G2 except for PV input.
2. The operating parameter such as voltage, current, temperature, environmental condition, etc of ESS are not determined during this investigation. Battery System and PCS integrate into a 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. The acceptability of grid support utility interactive inverters shall be determined by the local electric utility.
4. The ESS installation was not evaluated. Installation shall be implemented following the subassembly manufacturers' installation manual, national and local codes.
5. The system was intended for residential use without arc flash risk considered, and is not designed for used in seismic or outdoor coastal regions.
6. The AC circuit breaker connected in the grid port will be considered by the end product user when installation.

**APPLICABLE REQUIREMENTS**

ANSI/CAN/UL-9540:2016 - Energy Storage Systems and Equipment, 1st Edition.

**MARKINGS**

N/A



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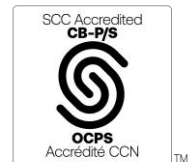
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Notes:

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Products certified under Class C370184 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>
80089801	2022-04-22	Original Certification for BESS of A1-ESS-G2 series in accordance with ANSI/CAN/UL9540:2016 under CSA APT Program(CSAus mark)