

# **Certificate of Compliance**

Certificate:	80089793	Master Contract:	272687
Project:	80089793	Date Issued:	2022-04-13
Issued To:	SolaX Power Network Technology (Zhe jian No. 288 Shizhu Road, Tonglu Economic Development Zone Tonglu City, Zhejiang, 310000 China Attention: Jason Shen	ng) Co., Ltd.	

## The products listed below are eligible to bear the CSA Mark shown with adjacent indicator 'US' for US only



Scola Chen Issued by: Scola Chen

#### **PRODUCTS**

CLASS - C370182 - BATTERY SYSTEM FOR USE IN STATIONARY APPLICATIONS Certified to US Standards

Battery Pack for use in Stationary Electrical Energy Storage Application, Lithium-ion, the Model name and Electrical Ratings are noted as below:



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Electrical Ratings:

	Battery System Consist Elements	Battery System Ratings				
Battery System Model		Normal Voltage, Vdc	Normal Capacity, Ah/kWh	Battery Pack System Configuration	Enclosure IP Rating	
T-BAT H 10.0	TBMS- MCS60060 + 2* TP-HS50	102.4	100Ah/10.0 kWh	1P32S	IP65	
T-BAT H 15.0	TBMS- MCS60060 + 3* TP-HS50	153.6	100Ah/15.0 kWh	1P48S	IP65	
T-BAT H 20.0	TBMS- MCS60060 + 4* TP-HS50	204.8	100Ah/20.0 kWh	1P64S	IP65	

Manufacturer's Specified Charging Parameters for Battery Pack

Battery System Model	Temperature Range, °C	Normal Charging Voltage, Vdc	Normal Charging Current, A	Maximum Charging Voltage, Vdc	Maximum Charging Current, A
T-BAT H 10.0	0~53	116	50	116.8	54
T-BAT H 15.0	0~53	174	50	175.2	54
T-BAT H 20.0	0~53	232	50	233.6	54

Manufacturer's Specified Discharging Parameters for Battery Pack:

Battery System Model	Temperature Range, °C	Normal Discharging Current, A	Maximum Discharging Current, A	Discharging Endpoint voltage, Vdc
T-BAT H 10.0	-10~53	50	54	90
T-BAT H 15.0	-10~53	50	54	135
T-BAT H 20.0	-10~53	50	54	180

Notes:

- 1. The battery pack including its battery management system has been tested according to the functionalsafety requirements of ANSI/CAN/UL-1973:2018, Second Edition. Solid state circuits and software controls relied upon as the primary safety protection, have been evaluated to the Standard for Safety: Automatic Electrical Controls – Part 1, CSA/UL 60730-1. Any change to the software and electronic controls of the BMS may require additional testing
- 2. The heating plate in battery module is a reserved for back up use, it's not used in real application, the safety for the heater and its heating mechanism was not evaluated.
- 3. The enclosure was evaluated to establish an IP rating of IP65 with the Standard for Degrees of Protection Provided by Enclosure (IP Code) IEC 60529.
- 4. Product shall avoid being used near marine environments.



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- 5. Corrosion due to electrochemical action is to be determined for conductive parts in contact with terminals when subjecting to the installation of the end products.
- 6. Equipment Application Location: Stationary
- 7. Access Location: Operator Accessible.
- 8. Manual disconnect device shall be required during the installation of the end products.
- 9. The installation was not evaluated. The battery system shall be installed in accordance with NFPA 70 or other applicable installation code.
- 10. Dielectric Voltage Withstand Test was performed with the test potential of 3300 Vdc, a higher test potential shall be considered in the end product if higher overvoltage category specified.
- 11. Overvoltage Category (OVC): 2
- 12. Pollution Degree (PD): 2
- 13. Altitude for Operation: Up to 3000 m.



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#### **APPLICABLE REQUIREMENTS**

ANSI/CAN/UL-1973:2018, Batteries for Use in Stationary, Vehicle Auxiliary Power and Light Electric Rail (LER) Applications – 2<sup>nd</sup> Edition, Dated February 7, 2018.

#### MARKINGS

See CSA report

Notes:

Products certified under Class C370182 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: 80089793

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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
80089793	2022-04-13	Original certification of battery system, models T-BAT H10.0, T-BAT H 15.0 and T-BAT H 20.0 to ANSI/CAN/UL-1973:2018, 2nd Edition.