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MANUFACTURER DECLARATION

Fire resistance for cabinets of ESS-AELIO and ESS-TRENE

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To Whom It May Concern,

We : SOLAX POWER NETWORK TECHNOLOGY(ZHEJIANG) CO.,LTD.
Manufacture Address: No. 278, Shizhu Road, Chengnan Sub-district, Tonglu County, Hangzhou, Zhejiang, China.

Hereby confirm that:
The cabinets of ESS-AELIO & ESS-TRENE fulfill the following standard / test report (including test conditions and test results).

1. UL 9540A:2019 Standard

   a) Test requirements:
   The test requirements are divided into multiple levels to analyze the propagation of thermal events, including cells, modules, units, and systems.

   b) Test results:
   - The BESS models tested had ratings of 768V and 215kWh, with 1P240S cell configuration (The battery system consists of 1 series-connected battery pack and 240 series-connected battery cells.) and a total weight of 2800kg.
   - The maximum target BESS temperature reached was 54.1°C, and the maximum wall surface temperature was 27.8°C.
   - 3 initiating cells went into thermal runaway, which then propagated to 5 adjacent cells, for a total of 8 cells in thermal runaway.
   - The maximum smoke release rate was 1.386 m^2/s, and the total smoke released was 125.26 m^2 over a duration of 9:48 to 16:45.
   - No flaming occurred, and there was no external flaming or flying debris.
   - Comprehensive gas analysis data was collected, including hydrogen, flame ionization detection, and Fourier-Transform infrared Spectrometer measurements.

2. EN 1364-1:2015 and EN 1363-1:2020 standards

a) Test requirements:
Fire Resistance Test of the Non-loadbearing Sample, in accordance with EN 1363-1:2020 *Fire resistance tests Part 1: General Requirements* and EN 1364-1:2015 *Fire resistance tests for non-loadbearing elements part 1: walls*.

b) Test results:
- The non-load-bearing asymmetric precast steel wall separation system did not fail in terms of integrity and thermal insulation during the 120-minute heating process as per the standard time-temperature curve.
- The temperature rise on the unexposed side was also within an acceptable range, with a maximum temperature rise not exceeding 43°C.
- The test was terminated at 121 minutes at the sponsor's request.
- The vertical fire-resistant component performed well under the 120-minute standard heating conditions and met the relevant performance standards.

In summary, the cabinets of SolaX ESS-AELIO and ESS-TRENE are able to withstand 1.5 hours of fire under the conditions tested above.

Manufacture Stamp

浙江艾罗网络能源技术股份有限公司
SOLAX POWER NETWORK TECHNOLOGY (ZHEJIANG) CO., LTD.

Guo Hua Wei

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