Press Release

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14 August 2023

TÜV SÜD awards Zonergy with sodium-ion battery certification

Shenzhen, China. TÜV SÜD has recently issued a certificate in accordance with PPP 51096A*, PPP 51097A* and UL 1973 for the 70Ah sodium-ion battery cells of Zonergy Corporation (hereinafter referred to as "Zonergy"). It is the first TÜV SÜD certificate of its kind in the world. TÜV SÜD's PPP 51096A* and PPP 51097A* are especially designed to evaluate the safety of sodium-ion batteries.

Caption (left to right): Mr Devin Deng, Sales Supervisor, TÜV SÜD New Energy Testing (Guangdong) Co., Ltd.,
Mr Boris Ouyang, Director COM and General Manager of TÜV SÜD New Energy Testing (Guangdong) Co., Ltd.,
Mr Liu Yang, Vice President of ZONERGY CORPORATION Chengdu Research Institute,
Mr Chen Renzhao, Vice President of ZONERGY CORPORATION,
Mr Ryan Jin, Section Manager, ESS Battery of TÜV SÜD,
Mr Li Zhenqiang, Founder of Starting Forum of Sodium-ion battery,
at the certificate-award ceremony.

Sodium-ion batteries have attracted the attention of the new energy industry in recent years, given that sodium is available as a raw material in abundance and at lower costs than lithium. They are seen as a potential replacement for lithium-ion batteries in large-scale stationary energy storage systems, and could become an effective complement to lithium-ion batteries in commercial vehicles or some passenger cars in the future.

Zonergy's 70 Ah sodium-ion battery cell has successfully passed tests in accordance with TÜV SÜD PPP 51096A*, PPP 51097A* and UL 1973 and has received TÜV SÜD type certification. These tests cover two different application scenarios for energy storage systems and electric vehicles, including International Electrotechnical Commission (IEC) standards and US standards. The certification demonstrates that the product’s safety meets the requirements national standards and establishes a solid foundation for future applications.

Mr Chen Renzhao of Zonergy said: „Sodium-ion batteries offer good characteristics including high C-rates, a high level of safety, and suitability for a host of applications such as distributed energy storage, low-speed vehicles and emergency power supply. TÜV SÜD certification is a positive summary and confirmation of our current work. We will continue to invest in the research and development of sodium-ion batteries, helping the energy storage industry to make new breakthroughs.“

Mr Boris Ouyang from TÜV SÜD said: „ In the face of technological push for standards especially when international standards are not yet developed, TÜV SÜD's team of experts works with enterprises to develop new battery standards providing assurance for safe and reliable products. TÜV SÜD and Zonergy have worked together for many years in the field of new energies and it is a pleasure for us to confirm Zonergy's achievements in the field of sodium-ion batteries with our certification.”

TÜV SÜD Type Certification Mark

* In response to the market entrance of sodium-ion batteries and in view of the fact that there is no IEC standard for sodium-ion batteries currently, TÜV SÜD's team of experts have developed two certification schemes, specifically for sodium-ion batteries: PPP 51096A and PPP 51097A.

PPP 51096A is based on IEC 62619:2022. It involves stricter ratings for short circuit, overcharge and thermal abuse tests and can be used to assess the safety of sodium-ion batteries used in industrial energy storage.

PPP 51097A is based on IEC 62660-2:2018 and IEC 62660-3:2022. It focuses on capacity check, short-circuit, overcharge, high temperature endurance and other tests, and can be used for safety, reliability and abuse testing of sodium-ion batteries for electric vehicles.

Note for editorial staff: The press release and the photo can be found on the internet at www.tuvsud.com/newsroom

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