



SOLID STATE POWER SUCCESSFULLY OBTAINS PATENT FOR BREAKTHROUGH HIGH VOLTAGE TECHNOLOGY

DALLAS, Texas. November 15, 2022. Solid State Power LLC (“SSP”) is thrilled to announce that the US Patent and Trademark Office granted the company a full non-provisional patent under US Patent 11,463,011. This patent is a key step in supporting the company’s goal to provide a new type of transformer that brings the advantages of all-solid-state technology to electric grid operators.

The patented technology is based on the novel concept of splitting inbound voltage into a number of smaller voltage streams enabling a solid-state power converter with multiple modules to drive a single compact transformer. This innovation addresses multiple existing issues in high voltage solid-state power conversion and reduces device size, weight and complexity while significantly increasing reliability and affordability.

Harnessing a number of innovations and off-the-shelf components, SSP built a Gen I prototype which showcases the capabilities of the technology to power the world’s first commercial solid-state medium voltage transformer (“SST”). Using no mineral oils and being substantially smaller and lighter, the SST will “plug’n’play” in the place of legacy distribution transformers on the existing power grid.

The SST architecture allows to easily integrate DC flows and futureproofs the ability to add additional smart capabilities as needed. At present, customers can already start realizing cash savings immediately after installation through inherent power factor control and voltage regulation which reduces operator capex and opex.

The new patent opens exciting new possibilities for the development and commercialization of medium-voltage AC-AC or AC-DC power transformers, MV ultrafast EV chargers, renewable energy interface to MV grid and industrial and military MV applications.

SSP is targeting to complete testing its 7.2kV, 25kVA Gen I prototype in 4Q 2022 with one of the biggest grid operators in the US.

About Solid State Power

Founded in 2020 in Dallas, Texas, Solid State Power is developing the world’s first commercial-grade, medium voltage, all solid-state transformer in partnership with major grid operators. The company has successfully patented its technology and is in the process of completing the tests of its Gen I prototype.

For further details visit: www.solidstatepower.net or contact Plamen Jordanoff, CEO/Co-Founder at p.jordanoff@solidstatepower.net