Solid-State Transformer

Product Design Reference | PMT-PR-2026-1112-06 | Rev A/0 | 2026-11-12

This reference reproduces published product information and its stated evidence status. Final project specifications require an approved drawing and sample acceptance record.

Published Parameters and Conditions

Parameter	Published value / interpretation
Power and frequency	100 kW / 20 kHz development reference
Construction	Medium-frequency cast-resin transformer under development
Voltage and turns ratio	Defined from the converter topology and waveform; no public voltage or ratio rating
Isolation	Working voltage, impulse, dielectric and partial-discharge criteria to be agreed
Loss and temperature rise	Require winding/core calculations and sample testing at the actual waveform and cooling condition
Mechanical and terminal interfaces	Customer envelope, creepage, clearance, mounting and terminal requirements
Release status	Development reference; no public production qualification or sample test report

Application and Validation

100 kW · 20 kHz. Developing the medium-frequency cast-resin transformer.

Published values are provided for application review. Design values, simulation results, rendered images and measured values retain the status stated above. Final specifications and acceptance criteria require an approved drawing and project-specific sample testing.

Please provide topology, voltage, RMS and peak current, switching frequency, cooling, insulation requirements and available mounting space.

This 100 kW / 20 kHz reference concerns the medium-frequency magnetic transformer within a solid-state transformer system. It is a development-stage cast-resin transformer, and does not represent a complete released SST converter.

Project Review and Contact

Send voltage, topology, frequency, RMS and peak current, loaded inductance or turns ratio, thermal boundary, insulation and available mounting dimensions. Sample fees and delivery schedule are confirmed in the project quotation.

3rd Floor, Building 1, No. 22 Dongda Road, Dongkeng Community, Fenghuang Street, Guangming District, Shenzhen, Guangdong 518132, China

Phone: +86 13537658938 | Email: zyong@promagtech.cn | www.promagtech.com

Product page: https://www.promagtech.com/products/solid-state-transformer.html

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