

SIRIO PLANAR

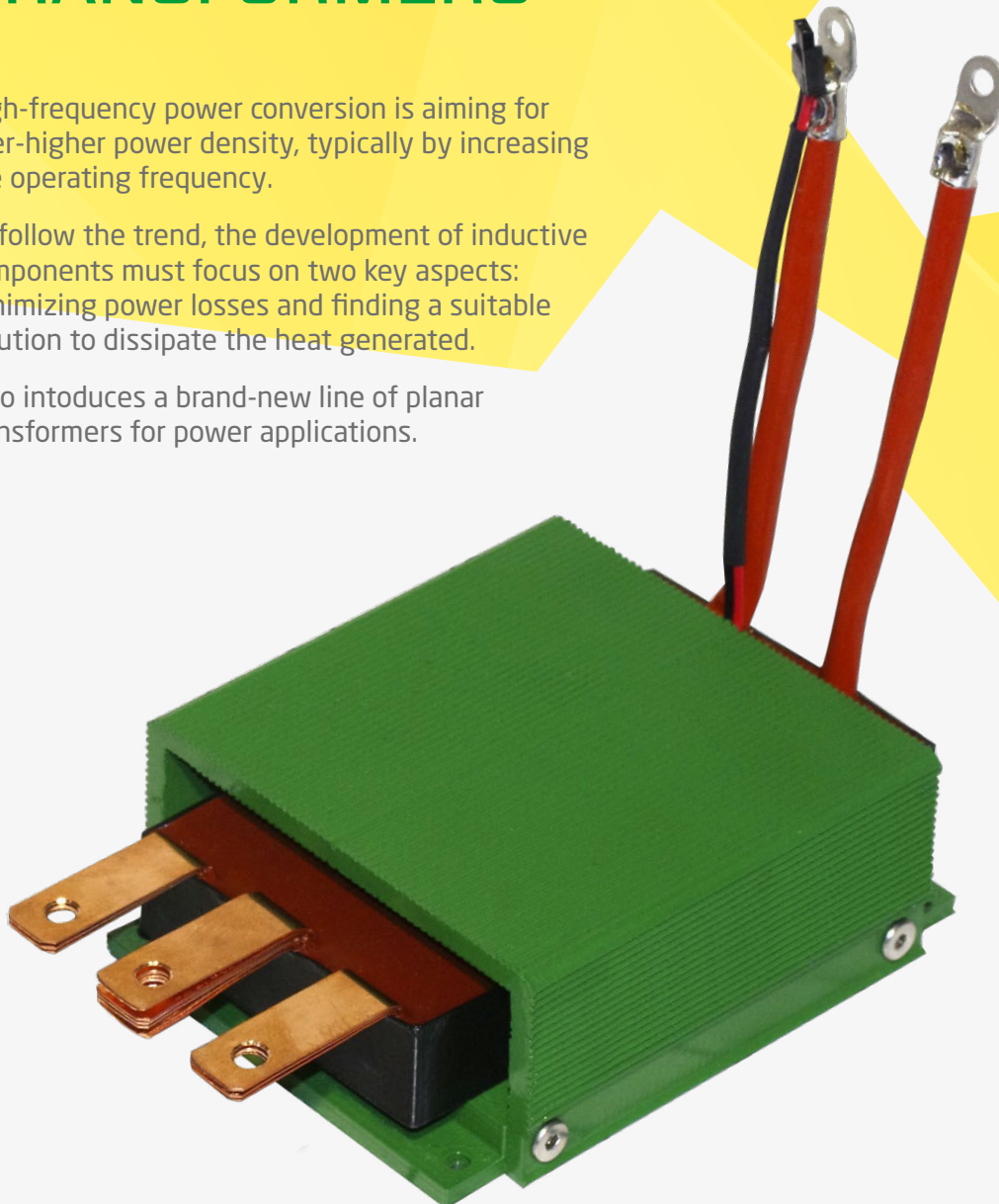


A NEW SERIES OF LOW-PROFILE POWER TRANSFORMERS

High-frequency power conversion is aiming for ever-higher power density, typically by increasing the operating frequency.

To follow the trend, the development of inductive components must focus on two key aspects: minimizing power losses and finding a suitable solution to dissipate the heat generated.

Sirio introduces a brand-new line of planar transformers for power applications.



5 ÷ 25kW

POWER
RANGE

from **100kHz**

SWITCHING
FREQUENCY

99%

MEASURED
EFFICIENCY

°C

EFFICIENT
COOLING

<60mm

ULTRA LOW
PROFILE

5kVrms

INSULATION
VOLTAGE

pC

PARTIAL
DISCHARGE
FREE

APPLICATIONS



Industrial
Power Supplies



Battery
Chargers



Galvano
Rectifiers



Traction



Welding



Renewable
Energy



UPS and GPU



Onboard
Chargers

INVESTING IN THE FUTURE OF POWER MAGNETICS

At Sirio, we are continuously pushing the boundaries of magnetic design.

To better support next-generation projects, we are proud to announce a major investment in our new state-of-the-art Power Electronics Laboratory.

By bridging the gap between theoretical simulation and high-frequency testing, we can support the design of your next power converter.

LAB FEATURES

Advanced EM Simulations

Virtual prototyping & electromagnetic modeling to optimize geometry before prototyping.

Quick Prototypes

CAD tool and 3D printed plastics for sampling.

High-frequency testing equipment

Test bench suitable for testing transformers up to 25 kW power rating and up to 200 kHz switching frequency.

Calorimetric loss verification

High-precision measurement of transformer losses via custom calorimetric testing.

Thermal management optimization

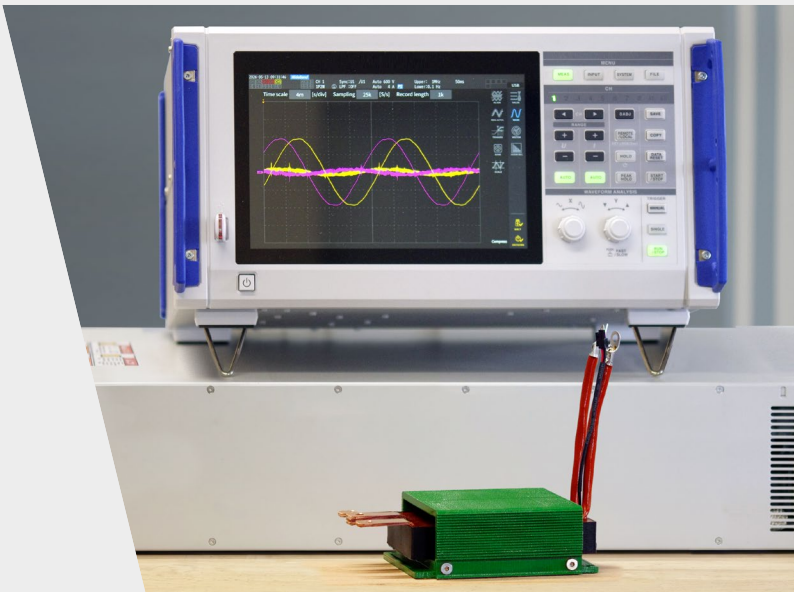
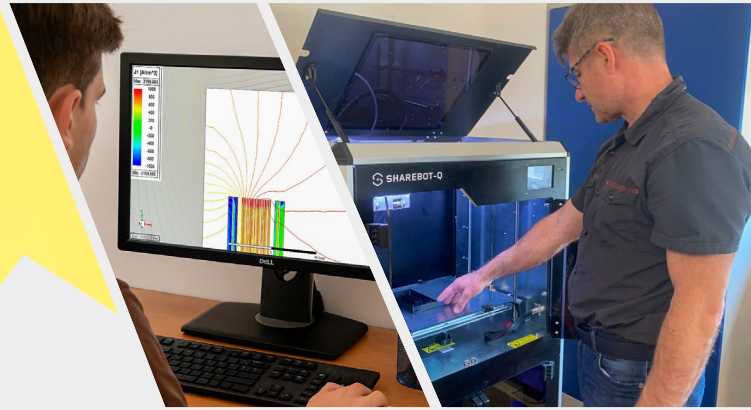
Comparative analysis and validation for both air-cooled and liquid-cooled magnetic components.

Theory-to-Practice Synergy

Closing the loop between theoretical calculation and empirical hardware validation.

Customer hardware integrable into the testing setup

Validation using customer-provided equipment and system-level setups.



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