Planar Flat Wire Transformer

Product Design Reference | PMT-PR-2026-1112-08 | 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 range:	500 W - 10 kW
Operating frequency:	up to 500 kHz
Isolation voltage:	1500 V - 4000 V
Thickness:	8 mm - 20 mm
Core material:	Ferrite (EQI)

Application and Validation

Flat wire winding combined with ferrite (EQI) core for ultra-high power density. Suitable for LLC , CLLC, PSFB (phase-shifted full-bridge) and other high-efficiency resonant topologies, operating up to 500 kHz.

PROMAGTECH supports custom inductance, current rating, core material, insulation class, cooling method, and mounting structure based on your converter topology and application environment.

How transformer and resonant inductor functions can be reviewed as one integrated magnetic assembly.

Magnetic component selection notes for PV inverters, storage PCS and bidirectional DC-DC stages.

Round-wire versus flat-wire trade-offs for window fill, AC loss, thermal path and production consistency.

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.

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

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