PRODUCT DATASHEET

Amorphous 3D Triangular Wound Transformer Core

Three-phase wound core in iron-based amorphous ribbon

DG Focus Technology Co., Ltd. · Source page: product-amorphous-3d-triangular-core.html · Compiled 25 September 2026. Values are copied from that page.

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Amorphous 3D triangular wound transformer core. The page pairs energy-saving amorphous ribbon with a 3D wound structure for symmetrical three-phase magnetic circuits. No-load loss is stated as 60–80% lower than traditional silicon steel.

Material and performance

Parameter	Published value
Saturation flux density (Bs)	1.56 T–1.61 T
1K101 material	Bs = 1.56 T
1K102 material	Bs = 1.61 T
Core loss	< 0.15 W/kg at 50 Hz, 1.35 T
Energy saving vs silicon steel	60–80%
Capacity card	100–2000 kVA
Long-term temperature	FAQ: reliable at 130°C; feature list also says stable operation above 130°C

Typical specifications

Capacity	Window (mm)	Core structure	Application scenarios
100 kVA	150 × 340	3D triangular wound	Commercial buildings, residential areas
200 kVA	170 × 375	3D triangular wound	Industrial parks, medium data centers
400 kVA	210 × 445	3D triangular wound	Large infrastructure, transportation hubs
Custom	According to drawings	3D triangular wound	Special requirements

The page says specific dimensions can be customized to customer drawings.

Applications

As published on the product page:

- Metro, high-speed rail, airports, and highways
- Data centers
- Wind and solar grid integration, energy storage, and charging stations
- Commercial buildings, UPS, and information-communication sites
- Manufacturing and industrial automation

Published notes

- The FAQ says capacities from 30 kVA to 2000 kVA. The capacity card and the example table list 100–2000 kVA. Both statements are printed on the page.
- The page describes three-phase path symmetry, lower magnetostriction-induced vibration from the compact 3D structure, and a weak surrounding field.

Not published on this product page. These items are omitted rather than estimated:
- A numeric saturation magnetostriction (λs) is not published on this amorphous core page.
- Permeability (μi), coercivity, and Curie temperature are not published on this page.
- Window dimensions are not published for 30 kVA even though the FAQ names that lower capacity.

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