

Shaped Ferrite assembly (transformers)

Allows for the reduction of the mass and volume of magnetic components for medium to high-frequency. Different solutions for assembling U-shaped ferrites and E-shaped ferrites to meet power requirements of transformers and filter chokes.



Technical characteristics

Frequency	Up to 1 MHz
Power	Up to 300 kVA
Insulation class	Up to 240°C

Examples of Transformers

Power (kW)	Frequency (kHz)	Prim/sec voltage (V)	Weight (kg)	L x W x H* (mm)	Specific features
6	50	375/375	1.8	66 x 118 x 88	Electric vehicle application, Bus bar [1]
4	25	500/50	3	72 x 255 x 74	Outputs with wire crimped lug, UL product
12	25	400/200	6	95 x 200 x 125	Outputs with wire crimped lug, UL product [2]
3 x 9	20	180/45	5	150 x 430 x 160	Thermal switch, Assembly of 3 transformers
5	20	100/800	4	150x430x160	Half Bridge application, standing assembly [3]
18	2.7 7.5	125/2500	11	267 x 150 x 180	Variable frequency sine. Time operating: 10%. Hood. Outputs on isolators and connectors [4]
30	25	350 2 x 750	12	254 x 125 x 200	Outputs on wire with lug, Research center for HV Power Electronic [5]
60	12	450/740	23	250 x 220 x 275	Forced air cooling, Time operating: 80%, Railway
66	20	2500/750	70	245 x 200 x 410	High-voltage. Partial discharge withstand. Insulation at 40kV. Advanced electric vehicle charging station
100	20	540 2 x 360	35	260 x 350 x 410	Outputs on isolators Lifting ring Research center for particle accelerator [6]
150	20	3 x 540 3 x 540	36	450 x 190 x 430	HF Three-phase. Research center for energy conversion

* L = Lengths – W = Width – H = Height

Key Benefits

- Space and weight savings
- Easy to mount: turnkey solution including: winding + mechanics + multiple connections (isolator, bus bar, cable lug, terminal block, connector)

Typical applications

- SMPS: Full-bridge, Half Bridge, Push-pull, ...
- Test bench

Electric schematic examples

Full-bridge transformers with filtering inductor, ...

