

# Shaped Ferrite assembly (inductors)

Allow to reduce 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 the power requirements of transformers and filter chokes.



(1)

## Technical characteristics

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

## Examples of Inductors

Main current (A <sub>NC</sub> )	Inductance (μH)	AC Current (App)	Weight (kg)	L x W x H* (mm)	Specific features
270	5	3.6 Arms @ 16 kHz	1.5	90 x 70 x 95	Time operating: 10min/24h High Current
150	10	10 Apkpk @ 100 kHz	1.5	70 x 95 x 85	Smoothing inductor for smart battery control system (2)
145	20	20 Apkpk @ 40 kHz	3	65 x 150 x 105	Low temperature rise, thermal sensor (1)
-	180	10 Arms @ 600 Hz	1.4	65 x 67 x 75	Outputs with wire crimped lug, induction heating application
200	5	20 Arms @ 40 kHz	1.5	67 x 130 x 94	Bus bar, High Current
-	44	65 Arms @ 600 Hz	2	66 x 130 x 80	outputs with wire crimped lug, Linearity <2% induction heating application (3)
-	20 000	4 Arms @ 7 kHz	2.2	70 x 140 x 91	Time operating: 10%, Anti flash finish, submarine environment
80	110	8 Apkpk @ 100 kHz	3	70 x 150 x 75	High frequency ripple, Anti flash finish
60	600	6 Apkpk @ 20 kHz	10	225 x 150 x 160	Anti flash finish, marine environment
120	25	-	3	120 x 120 x 150	Anti flash finish, Bus bar Railway (4)
200	200	30 Aeff @ 5 kHz	28	325 x 150 x 220	Anti flash finish, marine environment
5 Aeff @ 3-10 kHz	50 000	-	8	260 x 150 x 150	Forced air cooling, Time operating: 10%. HT outputs on insulators. Sonar application (5)

\* L = Lengths - W = Width - H = Height

## Key Benefits

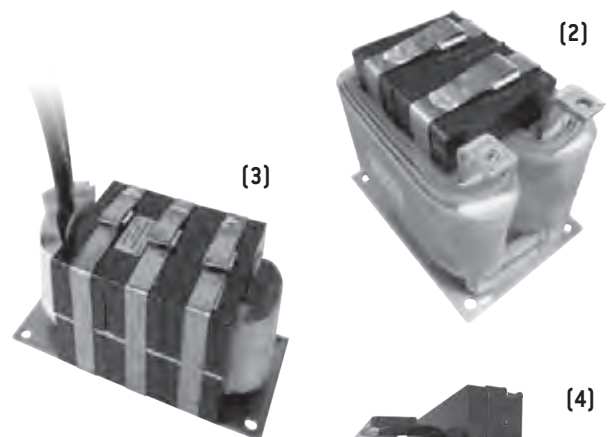
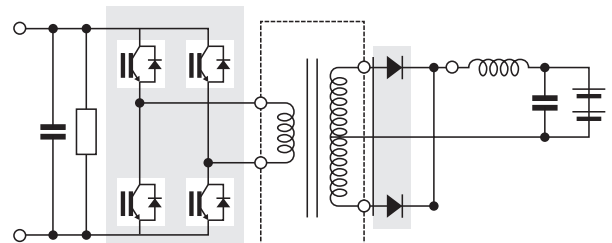
- Space and weight savings
- Easy to mount: turnkey solution including: winding + mechanics + multiple connections (isolator, bus bar, cable lug, terminal block, connector)

## Typical applications

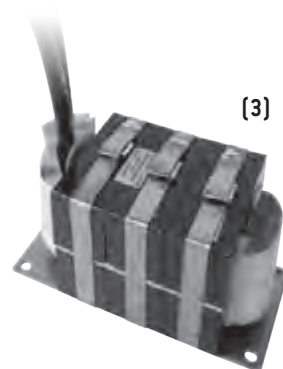
- SMPS: Full-bridge, Half Bridge, Push-pull, ...
- Test bench

## Electric schematic examples

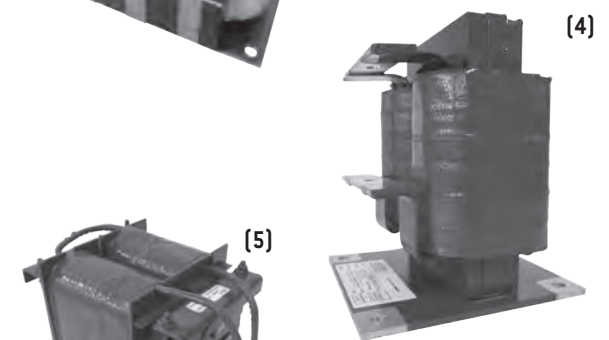
Full-bridge transformers with filtering inductor, ...



(2)



(3)



(4)



(5)