

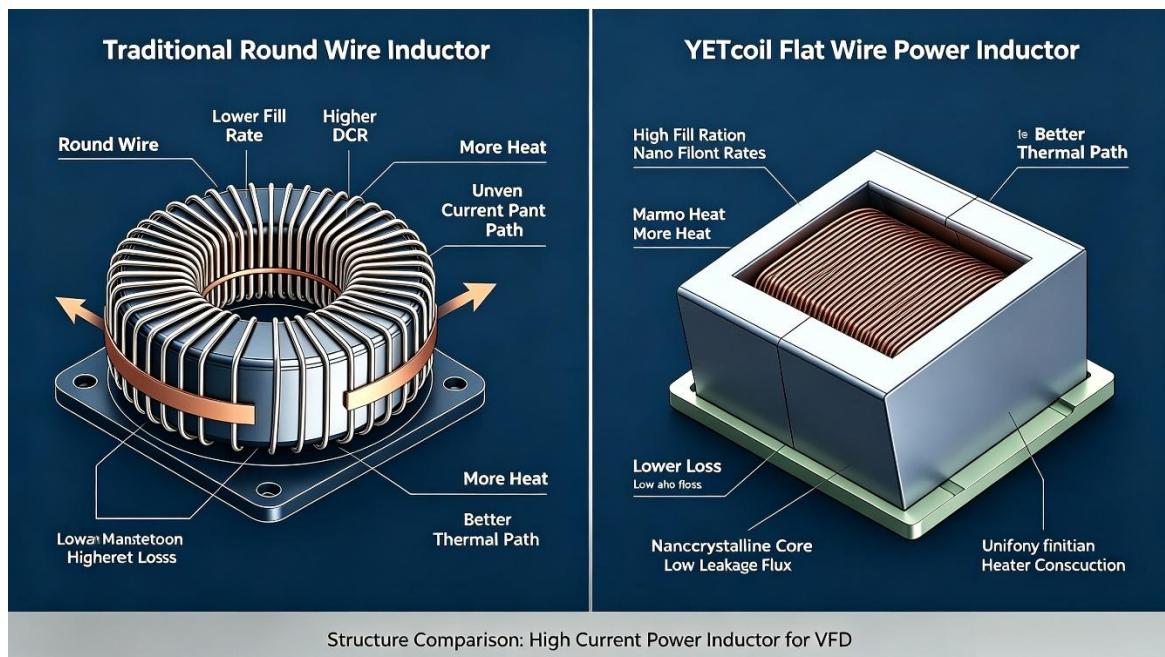
High-Current Power Inductor

— Solution for High-Efficiency VFD and Motor Drive Systems

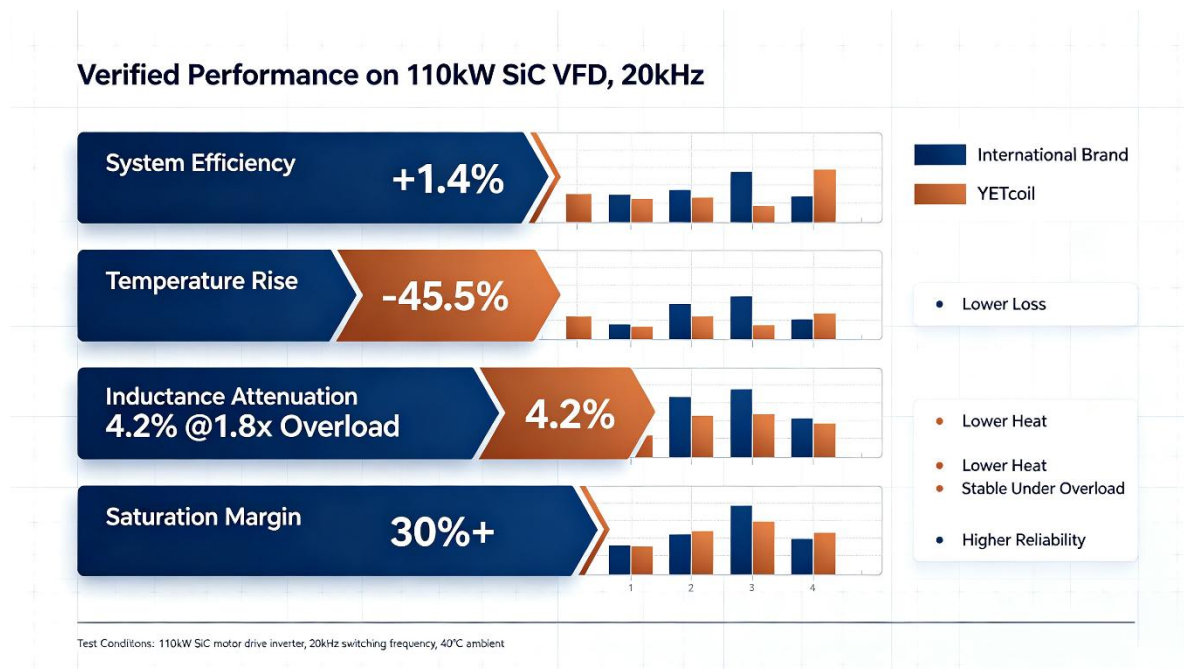
YETcoil (Changsha Yuyang Magnetics Co., Ltd.) is a professional manufacturer of high-performance high-current power inductors. We focus on addressing critical pain points in modern SiC/GaN high-frequency variable-frequency drive (VFD) and motor drive systems, including low conversion efficiency, excessive temperature rise and unsatisfactory operational stability.

Traditional round-wire inductors suffer from prominent drawbacks such as high power loss, inadequate saturation withstand capability and severe heat buildup. These issues degrade both full-load and light-load efficiency of inverters, induce motor torque fluctuation, and even result in EMI certification non-compliance.

YETcoil power inductors adopt high-density flat-wire winding technology together with custom-developed nanocrystalline and amorphous magnetic cores. This design greatly reduces DC loss as well as high-frequency AC loss, delivering superior performance in energy-saving efficiency, thermal management and overload saturation stability.



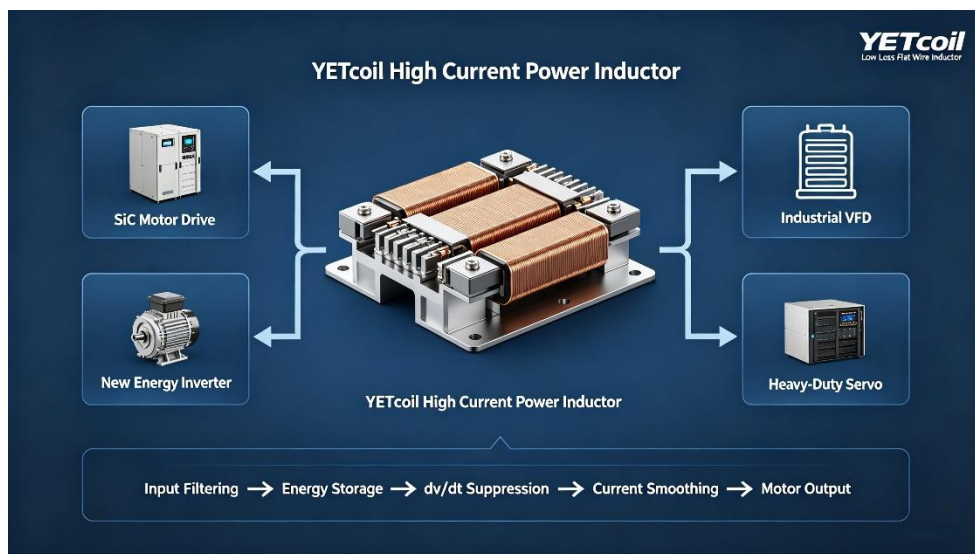
Core Competencies & Authorized Test Results



Our inductors feature an ultra-high winding fill factor of 85%-92%, more than 30% saturation margin reserve, and precision low-leakage magnetic shielding structure. Validated tests conducted on a 110 kW SiC-based VFD platform at a 20 kHz switching frequency yield the following performance indicators:

- Up to 1.4% improvement in overall system efficiency
- 45.5% reduction in full-load temperature rise
- Only 4.2% inductance derating under 1.8-times overload condition

The optimized magnetic architecture also simplifies EMC rectification work and helps customers cut overall BOM costs.



Our product portfolio is well suited for high-frequency servo drives, heavy-duty industrial VFDs, new-energy motor inverters and high-power-density compact equipment. YETcoil provides full-range customisation services. All products conform to CE, UL and RoHS global compliance standards, with mature mass-production capability to deliver benchmark-grade and consistently reliable products.

YETcoil — World-Class Manufacturer of Low-Loss High-Current Power Inductors, Enabling Innovation for Global VFD & Motor Drive Applications