Igct inverter cabinet

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What is an integrated gate-commutated thyristor (IGCT)?
Integrated gate-commutated thyristors (IGCT) All Hitachi Energy IGCTs (Integrated Gate-Commutated Thyristors) are press-pack devices. They are pressed with a relatively high force onto heat-sinks which also serve as electrical contacts to the power terminals. The IGCT's turn-on/off control unit is an integral element of the component.

Are IGBT modules compatible with inverter modules?
The IGBT modules are hardware compatiblewith inverter modules. Cover all your possibilities with our all-compatible ACS880 industrial drives designed to tackle any of your motor-driven applications,in any industries. The ACS880 industrial drive modules are specifically designed for machine builders and systems integrators.

How much power does an IGCT use?
The device's control power consumption typically ranges from 10 - 100 W. The IGCT is optimized for low conduction losses. Its typical turn-on/off switching frequency is in the range of 500 hertz. However,in contrast to the GTO,the upper switching frequency is only limited by operating thermal losses and the system's ability to remove this heat.

What is IGCT thyristor?
An IGCT is a special type of thyristor. It is made of the integration of the gate unit with the gate-commutated thyristor (GCT) wafer device. The close integration of the gate unit with the wafer device ensures fast commutation of the conduction current from the cathode to the gate. The wafer device is similar to a gate turn-off thyristor (GTO).

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With the introduction of its latest Reverse-Conducting Integrated Gate Commuted Thyris-tors platform (RC-IGCT), ABB sets a new benchmark in high power semiconductor device performance. The initial ...

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The main applications are in variable- frequency inverters, drives, traction and fast AC disconnect switches. Multiple IGCTs can be connected in series or in parallel for higher power applications.

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The supply unit consists of LCL line filters and of R1i-R4i, R6i, R7i and R8i IGBT supply modules, which are optimized for easy cabinet installation. The IGBT modules are hardware compatible ...

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Today, ABB"s IGCTs (Integrated Gate-Commutated Thyristors) present the best option for medium voltage drives operating at the highest power levels. Combined with optimum switch ...

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