

Abo inverters

Maybe you have walked past without noticing them or maybe you know exactly how many you have, either way electric motors play an important role in our everyday lives which most of us are unaware of but, they move and run most things we need for business and pleasure.

All these motors consume electricity so need a corresponding amount of energy to provide the torque or speed needed. If the torque or speed is too high or low, mechanical controls are used to control output. A motor's speed should match exactly what is required by the process, otherwise the result is inefficiency with a lot of wasted materials and energy.

Not knowing how to control motors can mean a lot of energy gets wasted which isn't good for any business. A way to control these motors, which not only saves energy, but improves productivity and reduces maintenance costs, is to use an inverter.

DC power is then fed into capacitors inside the drive to smooth out the electrical wave form which provides a clean power supply for the next step. Power then flows from a capacitor to an inverter which changes the DC power to the output AC power that goes to the motor. This step allows the drive to adjust the frequency and voltage that is supplied to the motor based on your current process demands. This means the AC power is run to the speed or the torque of the demands needed. This is why you can save large amounts of money using our AC drives.

The ABB HES liquid cooled mobile drives series is compact, maintenance free, robust and very easy to configure. It can have 2 or 3-level IGBT topology granting our customers the most reliable technology with highest efficiency available in the market. HES drives can operate as motor inverter, line converter or DC/DC converter. The drives are equipped with CAN-bus interface and certified STO (safe torque off) as standard.

Transforming the electric bus industry with ABB's motor and inverter package! Join our exclusive webinar to discover how our advanced inverter and motor package deliver unmatched efficiency, increased reliability, sustainable solutions, cost-effective operations, and seamless integration.

Liquid cooling provides excellent efficiency in a compact enclosure. With a high input cooling temperature of up to 70 °C, the cooling system can be simplified and downsized, saving you costs and reducing maintenance needs. With the correct glycol content also operation down to

This allows the selection of the perfectly dimensioned drive for each application. The required filter components for the line converter and DC/DC converter applications are available in the same current ratings are designed for the same harsh environments as the HES880 Drive Module itself.

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ABB offers with the HES580 the motor friendliest drive in the market. Through its 3-level topology, harmonic motor losses are reduced up to 75% compared to a 2-level converter. This leads to the best overall efficiency for a motor drive system. In combination with IGBT technology, voltage stress on the winding is minimal, which guarantees long winding and long motor lifetime.

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