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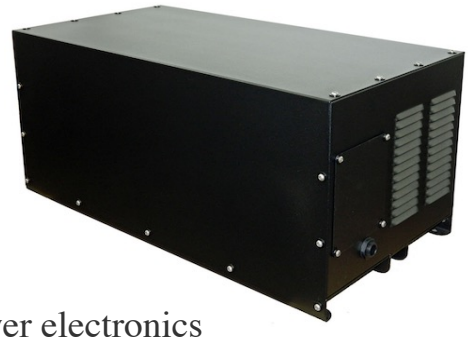
Single to three phase

Booster converter



A Booster converts single-phase power to 400V three-phase power. Intelligent, robust digital power electronics protect against overloads and surges. High-voltage capacitors contribute to a long lifespan.
Boosters are used on a wide range of machines, including lathes, planers, saws, thicknessers, spindle moulders, band saws, drill presses, grinders, milling machines, combination machines, car hoists, surface or deep-well pumps, welders, guillotines, conveyors and air conditioners, among others.

Boosters are designed for a 230V single-phase supply; special versions above 8kW are available for a 460V split-phase supply. All Boosters have a 400V two-phase input.
Always select a Booster with a kW rating of 1.2 times the largest load.
Installation involves connecting a single-phase cable from a switched single-phase wall socket to the Booster's input connector block, and connecting a cable from the Booster's three-phase output connector block to three-phase wall sockets.

The three-phase outputs provide pure sine waves with correct phase angles of 120°. Output voltage symmetry is maintained at better than ±6%. The 100% duty cycle allows continuous operation at full load. The instantaneous overload capability is 300%.

Booster 8 supports welders up to 300A and Booster 12 supports welders up to 450A. A Booster consists of a transformer, intelligent digital contactless power electronics, a low-noise timing generator, and long-life capacitors. All of these components are housed in a steel cabinet measuring 800 x 410 x 370 mm.
The weight of each unit ranges from 70 to 95 kg depending on the power.

Boosters above 8kW consist of multiple interconnected units of 8kW each. The intelligent controller recognises when the machines are starting up and provides increased currents to support them. Digital displays show the output voltage and current.

Boosters are designed and manufactured in New Zealand. For peace of mind and reliability, they come with a five-year free parts guarantee.