



The single to three-phase

Booster™ converter

The Booster converts 230V single-phase current into 400V three-phase current. An ideal choice for machines with three-phase motors. The digital power electronics recognise starting motors and generate start-up currents to accelerate all motors as quickly as if they were connected to the three-phase mains. This is why leading converter manufacturers world wide use our electronic controllers in their products.

Boosters find application across a diverse spectrum of machinery, 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, air conditioners and more.

Booster versions are available for a 230V single-phase power source or for a 400V two-phase source or (versions 12kW and above) for 460V split-phase source. Select a Booster converter with a kW rating that at least corresponds to the combined output of all motors running simultaneously or at least 1.2 times the kW output of the largest motor.

The three-phase outputs provide pure sine waves with correct phase angles. The symmetry of the output voltage is kept within + - 6 % for all loads. This comes close to the quality of the three-phase mains and is sufficient for all machines with standard motors. The 100% duty cycle supports continuous operation at full load. See the MultiPhase converters for perfect voltage symmetry for CNCs, inverters and VFDs.

The momentary motor start capacity is 300% of the converter output power rating. A Booster 8 supports a welder up to 300A and a Booster 12 up to 450A. Boosters above 8kW are supplied as multiple units of up to 8kW each.

Boosters contain long-life components such as a transformer, SCR power electronics, low-noise generator motors and capacitors, which are housed in a 800 x 410 x 370 mm steel enclosure. Digital displays show the output voltage and current.

The installation involves connecting a single-phase cable from a switched wall outlet to the Booster's input connector and a three-phase cable from the Booster's 400V three-phase output to one or several three-phase outlets near the machines.

The free part-replacement warranty covers five years.
Booster converters are designed and manufactured in New Zealand.

