



Single to three-phase MultiPhase™ converter

A MultiPhase efficiently converts single-phase into three-phase power much like a Booster converter. Its digital power electronics not only balances three-phase voltages during motor start-ups but also across all loads between 0% and 100%.

The precision of the digital power system ensures tight control over three-phase output voltage symmetry, surpassing the guarantees offered by utilities. This feature proves particularly beneficial for sensitive machines such as CNC machines, Variable Frequency Drives (VFDs), and other inverters that demand a consistently balanced supply voltage.

Determining the appropriate kW rating involves choosing a converter with a rating equal to the total combined rating of all motors running simultaneously or at least 1.2 times the rating of the largest motor, whichever is higher.

MultiPhase converters find application in an extensive array of machinery, including CNC machines, inverters, VFDs, lathes, planers, saws, thicknessers, spindle moulders, foursiders, tenoners, mortisers, belt sanders, band saws, drill presses, grinders, milling machines, combination machines, tyre machines, car hoists, surface or deep well pumps, horse treadmills, welders, guillotines, conveyors, irrigation systems, submersible- or surface pumps, air conditioning, compressors, refrigeration, effluent pumps, conveyors, cranes, hoists, wine presses, grain mills, and more.

Offered in power ranges spanning 8kW to 40kW, MultiPhase 8 functions as a single unit, while larger versions consist of multiple interconnected units of 8kW each. MultiPhase 8 can efficiently power a welder up to 300A, and MultiPhase 12 supports up to 450A.

The converter accommodates a single-phase input voltage of 240V or 415V two-phase, with special versions available for 480V split-phase supply. Digital indicators provide real-time insights into output voltage and output current.

Output voltages maintain a pristine 3x 415V pure sine wave, with phase angles correctly set at 120 degrees apart, mirroring utility-supplied power.

Compact in design with dimensions measuring 410 x 800 x 370 mm, each unit carries a weight of about 95kg.

Designed and manufactured in New Zealand, Booster and MultiPhase converters come with a noteworthy five-year free part-replacement warranty, affirming their reliability and commitment to quality.

