

Single to Three-Phase Booster™ T and F

The digital Boosters™ T and F utilise the best technology for converting single-phase power to three-phase.

The power quality produced by a Booster™ T is comparable to utility supplied three-phase power.

A Booster™ benefits from advances in digital power electronics:

Reliable three-phase power with high precision and high efficiency.

VERSATILITY

The Booster™ T can safely power any three-phase application.

Its superior power quality makes it ideal for powering demanding loads such as hard working machines in workshops, deep submersible pumps, vacuum and effluent pumps, compressors, crushers, lathes, mills, sensitive CNC machines, welders, plasma cutters and all kinds of other machines.

POWER QUALITY

All Boosters produce true sine waves. Phase angles are correct as with utility supplied three-phase power. All Boosters™ generate high start-up currents when motors start. Motors start fast.

Boosters™ series T produce balanced output voltages under all load conditions. Balanced phases are required to operate CNC machines, inverters, welders, plasma cutters and variable frequency drives.

ECONOMY

The installation of utility supplied three-phase services can cost much even when three-phase lines are nearby. In some areas three-phase line charges have to be paid, even when no power is used.

The Booster™ T is an affordable alternative. It is rugged, reliable and efficient. Contact-free power electronics guarantees a very long life expectancy.

EASY INSTALLATION

Installation of a Booster™ is straightforward and simple and is accomplished by an electrician in a short time. Instructions can be found here: <http://www.eurotech.co.nz/text/Install.pdf>

EASY OPERATION

A Booster™ is to be used like a transformer: no switches, no controls and no indicators. No manual needs to be studied. It just works reliably and continuously.

INPUT AND OUTPUTS:

Boosters™ T range from 4kW to 180kW. Standard sizes:

Up to 40kW in New Zealand, up to 64kW in the UK, up to 96kW in Australia, up to 180kW in the US.

Standard supply voltages are 240V single phase or 415V dual-phase or 480V split-phase.

Output voltages are balanced three-phase sine waves 415V 50Hz between phases.



FEATURES:

Boosters™ ride through blackouts, brownouts, power surges, fast transients, short-circuits, line disturbances as no other product.

Boosters™ detect starting motors and instantly support them with boost currents for fast acceleration.

A Booster™ does not produce any harmonics, line disturbances or any electromagnetic radiation. Utility companies have no problem accepting our products in their networks.

BOOSTER™ VERSIONS:

Booster™ T can be used for all applications including PLC, welders, hard working pumps, motors running continuously under high loads, VFDs, CNC machines, deep submersible pumps, plasma cutters and all kind of machines.

Booster™ :	kW	hp	Supply voltage
T 4 - 240	4	5.5	240V single phase
T 8 - 240	8	11	240V single phase
T 8 - 415	8	11	415V two phase
T 8 - 480	8	11	480V split phase
T 12 - 240	12	16	240V single phase
T 12 - 415	12	16	415V two phase
T 12 - 480	12	16	480V split phase
T 16T - 240	16	22	240V single phase
T 16T - 415	16	22	415V two phase
T 16T - 480	16	22	480V split phase

Boosters T 24, T 32 or T 40 are made to order for any supply voltage.
Boosters for up to 180kW (240hp): please contact us.

Booster™ E comes in sizes 2, 3, 4 and 8kW, generates the same boost currents to support starting motors but does not offer the electronic phase voltage balancing of a Booster™ T.
Please see the brochure Booster™ E.

WOODWORKING:

Saw, spindle moulder, planer, thicknesser, belt sander, band saw, CNC machine, four-sider, tenoner, mortiser, combination machine, wood turning lathe, sander, router, borer, edge bander, dust extractor.

METALWORKING:

Lathe, CNC machine, drill, folder, milling machine, grinder, saw, polisher, shaper, punch, shear, hydraulic folder, guillotine, press, welder, post lift, hoist, pump, compressor, plasma cutter, welder.

FARMING AND MORE:

Irrigation systems, submersible- or surface pumps, chillers, air conditioning, compressor, refrigeration, effluent pumps, conveyor, crane, hoist, wine press, grain mill.

Pumping stations. Crushing, screening, feeders, grinders, slurry pumps, compactors.
Oil well beam pumps.