

Powersafe 800A 4 Port Sequential Mating Box



Planned power outages

Can now be a thing of the past.

We understand modern business. The fact that even a short time without power can cause chaos within IT departments, let alone the cost of lost production and the damage caused by late orders.

We here at Phase 3 Connectors came up with the Powersafe Box (patented) - a cost effective and safe way of connecting a generator set to your low voltage network, which is fast becoming the industry standard in generator connections.

Disaster planning is an important part of any business, whether it be a standalone company or part of an important supply chain. Hospitals, for example, require 100% backup in some areas at all times, it is not enough to run on their standby sets during a power outage. This system allows a generator to be synchronised on, requiring no power downs and the hospital set remains as the backup. On occasion it can be impossible to get a generator set into certain situations, for example in the middle of a production area, chemical plant or inside a prison. These units can be mounted on an outside wall, on a sub-main away from the risk area, still giving you the ability of synchronising but providing a robust solution to your disaster plan.



Any business with an air cooled transformer should have it maintained once a year - this means a power down which is bad for business and a nightmare to plan with your IT department.

These Powersafe Boxes will accept a synchronising generator set, allowing high voltage maintenance and planned high voltage outages to be carried out without any interruption to your low voltage supply.

Unplanned supply interruptions are no problem with a Powersafe Box. Connection can be carried out safely in minutes with no risk of crossed phases, or connection errors. Using a synchronising set in this situation would mean no loss of power once the mains supply is available again.

The Powersafe Box can be panel-mounted, providing the most cost effective solution, or can be brought out to an external or safe position. Large power connections are catered for by stacking the units allowing for even the largest of low voltage supplies to be connected in a safe way.

24 hour businesses are just that! A power outage can cripple a company in more ways than one.

Why worry with this simple cost effective solution.

Technical Characteristics

The Powersafe Sequential mating box is a 3 Phase and Earth generator connection point which has a current rating of 800amps. The unit accepts connection of Powersafe line connectors. The sequence of connection and disconnection is controlled to ensure safety circuits are connected first and disconnected last (first mate last break). Furthermore the keyed design eliminates the possibility of connection errors. The Powersafe box incorporates an integral shutter mechanism which controls the connection sequence. The sequence of connection is:

Turn key to open Earth lock - (the Earth cap will open to allow connection of the Earth connector).

Plug the Earth connector in and turn clockwise to its locked position - (the L1 cap will open to allow you to plug the L1 connector in).

Continue the sequence with L2 and then when the L3 connector is plugged in and engaged turn the lock key to the closed position (this will lock all the connectors mechanically in place so that they cannot be removed and it will also operate an internal microswitch).

(The internal microswitch can be used as a signal path to operate electrical protection devices, a 3 pin connector on the rear of the box is provided for easy connection. This can be used to trip the supply to the box should someone open the Lock key whilst the supply is present.)



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The box comes in both source and drain versions.

Dimensions are: 108mm box: H= 108mm, W= 483mm, D= 130mm

Electrical: Current rating up to 800Amps.

Maximum rated voltage to Earth: 2KVac / 3KVdc.

Typical Applications: MOD, Hospitals, Stadiums, Mobile Generators, Field Camps,
Outdoor Events, Welding Equipment, Data Centres, Dockside Power.

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