



## 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.

Phase 3 UK have immense pleasure in presenting the Powersafe Box (Patent Pending) - 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 for 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. 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

### General

The Powersafe Box is a 3 Phase, Neutral and Earth, generator connection point. 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. Further 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 Lock to open position - (The Earth cap will open to allow connection of the Earth line connector)
- Enter and turn the Earth connector to locked position - (The Neutral cap will open to allow connection of the Neutral line connector)
- Continue the sequence until the Line 3 connector is engaged and turned to the locked position
- Turn the Switch Lock to the closed position (this will lock all connectors mechanically in place so that they cannot be removed and it will also operate the internal micro switch\*)

*\*An internal micro switch is provided, which can be used as a signal path to operate electrical protective devices. A 3 pin connector on the rear of the unit is provided for easy connection.*

*The switch can be used normally open or normally closed. This added protection could be used for example to trip the supply to the box should some one open the switch key lock whilst the supply is present.*

### Dimensions

- Height = 88mm, Width = 483mm, Depth = 130mm  
**2U Panel Mounting (2HE)**

### Electrical

- Current rating up to 800Amps
- Max. rated voltage to earth: 2KV AC/ 3KV DC

### How To Order

- Panel Source Powersafe Box 800 Amp = PS5-X
  - Panel Drain Powersafe Box 800 Amp = PD5-X
- X = Position identification colours for E, N, L1, L2, L3  
E = Green, Blue, Brown, Black, Grey  
A = Green, Black, Red, White, Blue  
UK = Green, Black, Red, Yellow, Blue