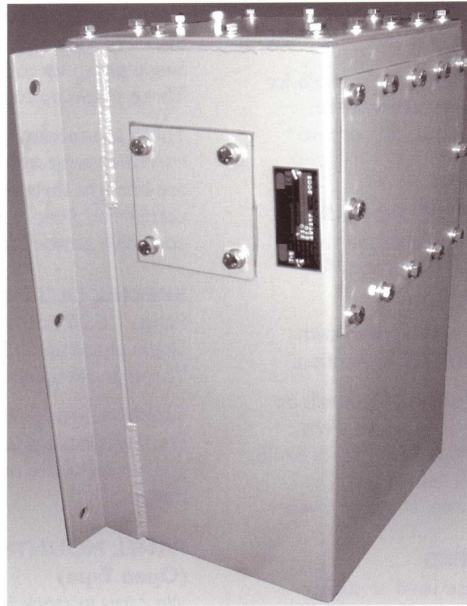


# FDB25 Solid Insulant Non-Ventilated Transformers



## **INTRODUCTION**

Proven in use for over 40 years in the extremes of the North American climate, Epoxy-Silica solid insulant dry transformers overcome the location and fire hazard limitations of liquid and open ventilated designs.

Complying with BS171, the non-flammable construction, attractive compact appearance and quiet operation allow them to be located unobtrusively in schools, hospitals and laboratories.

The sealed construction makes them suitable for indoor or outdoor use in the hostile environments of manufacturing industries, steelworks, quarries, mines, ships and Chemical plants.

They can be found on top of high temperature furnaces, beneath mobile broadcasting vehicles, North Sea oil platforms and in Japan, Russia and America.

## **Design Features**

Only active components are embedded. Cumbersome framing, blocking and duct spacers are eliminated, reducing COST while SAFETY AND RELIABILITY are paramount. Since all internal spacers are filled by NON-FLAMMABLE silica the possibility of internal gas accumulation and explosion is non-existent. Cores and coils are supported and protected from dust, moisture, fungal attack and injurious atmosphere by the rock hard thermoset filling. HIGH PERFORMANCE and QUIET OPERATION are assured by the use of LOW LOSS wound cores. Adequate conductor areas give HIGH EFFICIENCY and GOOD REGULATION. Non-ventilated robust steel cases, form-fitted around the compact core and coils give REDUCED SIZE while allowing additional space for EASY TERMINATION.

Since cooling is effected from the case wall only, they may be mounted in any position and once installed, are virtually maintenance free.

**See overleaf for full Specification.**

### **PORTABLE TRANSFORMERS**

Standard Range: 0.33 – 2.5KVA,  
Single Phase up to 600V. Double Wound,  
Epoxy – Silica encapsulated in steel case.

Portable transformers up to 2.5KVA are suitable for carrying by hand and are primarily intended to provide safe, low voltage to operate one or two portable tools at a time.

### **SITE POWER SUPPLY TRANSFORMERS**

Site power supply transformers available in ratings 3 – 25KVA, single and three phase expressly for construction site and quarry use.

Portable and freestanding they are supplied with sockets and miniature circuit breaker protection.

A complete site distribution system can be built up using our extension boxes and connectors. Fully encapsulated they will deliver large amounts of SAFE LOW VOLTAGE POWER while standing on unprepared uneven ground in rain, snow and water.

### **LEAD LAMP TRANSFORMERS**

These portable transformers are used to supply hand lamps at the 25 Volts now required in tanks, tunnels and boiler rooms. Available in standard ratings of 60, 120, 180 and 240VA to supply 1,2,3 or 4 60-watt lamps.

### **WALL AND/OR FLOOR MOUNTING TRANSFORMERS**

Standard range 0.05 – 30KVA  
Single phase up to 600 Volts 0.5 – 50KVA,  
Three phase up to 600 Volts

Double wound, suitable for INDOOR and OUTDOOR use. Ideal for general use in schools, factories, laboratories, steelworks, aboard ship and for tropical use. They may be used independently or mounted in other electrical equipment.

### **HAZARDOUS AREA TRANSFORMERS**

Standard Range 0.05 – 50KVA, Single phase up to 6000 Volts 0.5 – 75KVA,  
Three phase up to 600 Volts

These are recommended for use in extremely corrosive attack on the electrical components.

### **SPECIAL DUTY TRANSFORMERS**

Range 0.25 – 50KVA,  
Single phase up to 50000 Volts 1.00 – 75KVA,  
Three phase up to 50000 Volts

Special designs to meet the most exacting conditions are now possible when utilizing the unique properties of the non-ventilated, epoxy-silica sealed design.

### **PANEL MOUNTING TRANSFORMERS**

(Open Type)

We carry in stock for immediate delivery 25VA to 1.5VA conventional type panel mounting transformers with a wide range of standard voltages.

1.5KVA to 30KVA, we recommend our OPEN-ENCAPSULATED units, where the core and windings are fully encapsulated in a light metal enclosure, leaving exposed terminals, giving the advantages of a sealed unit. To the panel mounting range.

Please refer to the FDB3 data sheet for details of Isolating Transformers complete with RCD protection.

In line with our policy of constant improvements, we reserve the right to vary the specifications contained in this leaflet.

The services of our Technical support staff are available for assistance or guidance on earth leakage problems and possible solutions please contact us at:

### **FDB Electrical**

Unit 1 Reynard Mills Trading Estate, Windmill Road,  
Brentford, Middlesex TW8 9NZ

Telephone: +44 (0)20 8 568 4621  
Fax: +44 (0)20 8 569 7899  
Email: rcdsales@fdb.uk.com



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We manufacture a complete range of electrical safety products. Please contact us for further details.