

## Compact Padmount Substation

### More power at your doorstep

- **Full protection and performance from a compact padmount substation**

The Trafobox is a compact MV/LV padmount substation that affords the same protection as a conventional substation – but at a substantially lower cost. The secret is in the design. Consisting of a special transformer with integrated, oil-immersed, current limiting, MV-fuse-links, the Trafobox design eliminates the need for the MV ring main unit, reducing cost and size – without compromising performance or safety.

The padmount substations can be used in a variety of settings - from building sites to remote locations such as radio masts - and connect easily to any HV network.

- **Compact and unobtrusive**

The 50 kVA to 250 kVA range of Trafobox substations measure less than 1.2M x 1.2M x 1.2M, making them as much as five times smaller and three times lighter than conventional concrete substations. The extreme compactness makes the Trafobox ideal for locations where space is a premium. Furthermore, design features – such as the stainless-steel enclosed finwall tank, the range of paint colours, and the integrated housing – ensure that the unit blends unobtrusively into its environment.



# TRAFOBEX

- **Standard and lightweight**

Conventional substations comprise a transformer, ring main equipment, LV panel and a concrete housing and are so heavy they must be lifted into place with a crane. The Trafobox's lightweight design and compactness make positioning much easier. And because the Trafobox is of standard size, all civil works and connections can be standardized for improved economy.

- **Environmentally friendly**

The Trafobox is designed to have minimal impact on the environment: the reduced size requires fewer materials for manufacturing and less resources during installation; while the special Pauwels paint offers the long life of galvanizing without the environmental problems.

- **Low maintenance**

The design of the Trafobox makes it easy to maintain. The medium voltage plug-in terminal bushings and the low-voltage protective device are enclosed in a locked, heavy-duty steel housing, protecting them from exposure to the elements and limiting wear-and-tear. When maintenance is necessary, parts are easily accessible through doors in the housing. The paint has a life expectancy of 30 years and has passed the 2,000 hour Salt Spray Test.

- **Cost saving**

The Trafobox offers all the protection of a ring main unit without the expense of a conventional substation: the Trafobox affords a savings of up to 50% on maintenance, planning and installation.



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