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# Small Power Transformers

up to 30 MVA - the reliable and cost-effective transformer solution

Distribution transformers have traditionally been compact, standardized and cost-efficient products capable of delivering up to 2.5 MVA. When more power is needed, the power transformer concept is used with dedicated tailor made designs and specific testing and requirements. Developed by market leader CG Power Systems, the CG Power Systems Small Power transformers are capable of delivering up to 30 MVA/132 kV.

## The Small Power concept

CG Power Systems has drawn on in-house engineering expertise to design and manufacture a range of power transformers. The product development team has taken proven technology used in distribution and medium power transformers and applied the ideal mix to Small Power transformers. Design features of mechanical structures, LV and HV winding concepts, bushings and accessories, as well as cooling systems have been adapted, enabling CG Power Systems to manufacture the Small Power transformer in a cost-effective way. Units delivering up to 30 MVA have already passed stringent performance tests and are in active service in a variety of settings, including refineries, chemical plants and other large installations.

## Excellent cost/performance ratio

When developing the Small Power, CG Power Systems copied some of the principles used for standard distribution transformers - whether design, manufacturing or logistics - so they could deliver the product to the customer in the most cost-effective way. For instance, the functional specifications for the Small Power, such as power, high voltage, low voltage, impedance, and noise, remain the same as for the power transformer. The end result is that the customer enjoys an excellent cost/performance ratio with the Small Power.

## Flexibility

The concept CG Power Systems borrows from its customized solutions is flexibility. The Small Power can be customized to meet a range of specific requirements - from low noise and reduced no-load loss, to lower load loss and overloadability. Valuable add-ons such as HV and LV cable boxes, Buchholz protection and temperature indication are also available. Extra-rugged tank designs suitable for severe long-distance transport and difficult installation conditions are yet another option.

## Energy-efficiency

Energy-efficient products help make for a cleaner environment. Small Power can be specified for a very low no-load loss or a low-load loss; these environmentally friendly options reduce energy transport costs, generation capacity and costs, at the same time contributing to a better environment.

## Timing

Thanks to standardized design and manufacturing, the standard quotation cycle can be shortened and a quick delivery time guaranteed. With the Small Power, projects can be realized within the shortest possible time - affording yet another competitive advantage.



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