



world of transformers

POWER GENERATION TRANSFORMERS



POWERGEN APPLICATION

Power generation is a strategic asset for all world Countries and environment protection, sustainability and power quality are nowadays key decision factor for power generation investments.

Commercial electric utility power stations are usually constructed on large scale and designed for continuous operation. Essentially **rotating generators are the primary machines for power generation** but there are also static generator. One example is the photovoltaic energy.

For all the generation methods we find transformers and inductors to shape the AC generated waves and to feed correctly the grid.

Transformers and inductors are also key elements in the power generation segment and TMC Transformers is a key player for many leading investors, users and EPCs.

For both LV and HV applications systems efficiency and compact size are crucial. **Our in house FEA design facility allows our engineers to study complex electro-magnetic circuits as well as the structural and thermal performance** enabling us to provide the required level of reliability in the finished product.

ENVIRONMENTAL CLIMATIC-FIRE CLASSES

CESI
LAB CERTIFICATION



PHOTOVOLTAIC FARM

ECO design transformers with reduced load and no-load losses are available to meet European directives as well as individual project requirements. Transformers are capital goods with a service life of many decades so through life costs are an important part of the initial purchase price.

PHOTOVOLTAIC FARM

- Power 1250kVA
- Primary Voltage 20kV 50Hz
- Secondary Voltage 2 x 0,2 kV
- Protection IP00
- Cooling AN
- Weight 3.900kg



OUTDOOR AUXILIARY TRANSFORMER

Although outdoor installations normally utilize oil insulated transformers, environmental protection or easy of maintainability demand the use of specialist dry type transformers.

OUTDOOR AUXILIARY TRANSFORMER

- Power 200 kVA
- Primary Voltage 11 kV 50Hz
- Secondary Voltage 0,433kV
- Installation Outdoor
- Protection IP56
- Cooling AN
- Weight 6.500kg



HYDROPOWER PLANT

Small hydro projects usually have faster environmental and licensing procedures. The equipment is usually in serial simplified production and the related civil works construction is reduced. The physically smaller size of equipment makes it easier to transport and install.

SMALL HYDROPOWER PLANT

- Power 1500/2000kVA
- Primary Voltage 11kV 50Hz
- Secondary Voltage 0,69 kV
- Protection NEMA 3R
- Cooling ANAF
- Weight 5.000kg





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TMC Transformers SpA

Viale dell'Industria, 65
21052 Busto Arsizio (VA) – Italy
Tel. +39 0331 1262011
sales@tmctransformers.com
www.tmctransformers.com



TMC Transformers SpA is a leading transformer manufacturer. Its Engineering and Manufacturing Team has more than 30 years experience accrued in leading Companies in Switzerland and Italy.

Powergen transformers are special, we always design them for the Customer needs, using technical specifications and applicable standards.