

ELECTRONIC EQUIPMENT PRODUCTION

SPECIALS

SECOM

Founded in 1975, SECOM is a leading distributor in the Power Electronic Components market. Over time the company evolved, becoming an important designer and manufacturer of power electronic devices for industrial automation manufacturing technologies for various industrial processes.

Furthermore SECOM continuously carries out new research and technical proposals in conjunction with important clients, providing technical support to meet their specific needs. Flexibility and short delivery time have become pillars to SECOM's company policy.

Headquartered near Milan in Sesto San Giovanni, Italy, SECOM is recognized around the world for manufacturing high quality products. SECOM's technically advanced products combine with our organization's solid field service, committed to providing prompt and reliable support.



SECOM produces a wide range of protection devices such as overvoltage protection for the converter input line or output power stage.



This type of special assembly is mainly used to protect power converters against overvoltages. Sudden current variations at system and commutating inductances may produce overvoltages which impose a load on thyristors or semiconductors in the reverse or blocking direction. Overvoltages may for example occur during the cutting out of semiconductors, the cutting in and out of power transformers, switching operations to inductive and capacitive loads,

discharges in the main lines, protective tripping operations of main circuit breakers or fuses and others.

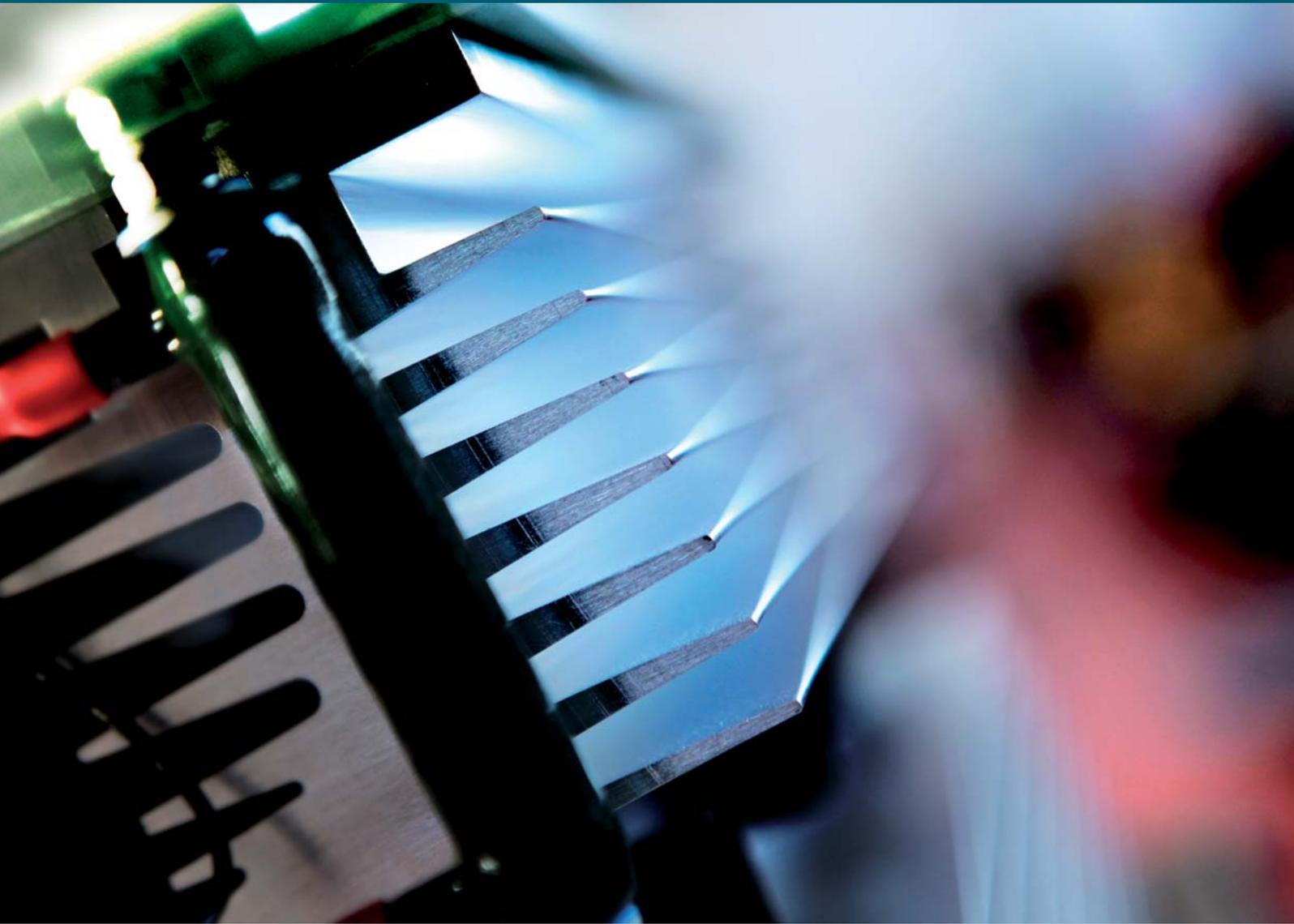
Several different sizes are available for converter with power from 100 kW up to 5 MW and input voltage up to 1000 V.

Special mechanical arrangement can be offered with different levels of protection degree.

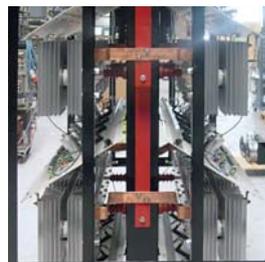
Simple and very quick installation and maintenance are an important feature.

- 1** Input filter IP20
- 2** Input filter IP00
- 3** Crowbar assembly
- 4** Standard input filter





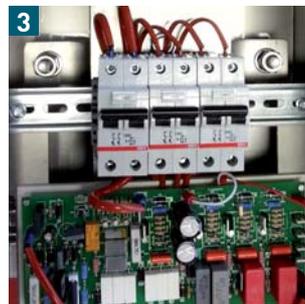
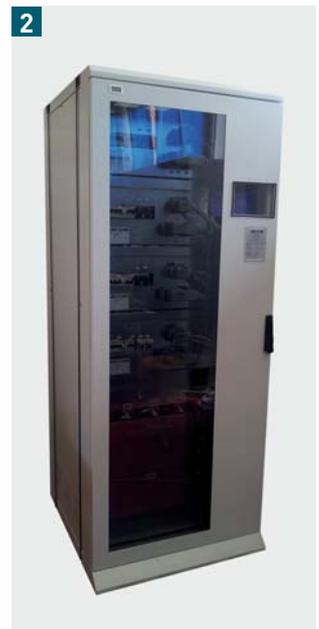
SECOM is an official supplier of the Italian State Railways (RFI and Trenitalia) offering several different power solutions for fix installations such as power substations and other equipments like line traction overvoltage protection, battery charger, switching power supply and HV converter for auxiliary directly fed by the 3 kV contact line.



For the substation SECOM developed natural air cooled power rectifier at 3000 Vcc to fed the eletrical line network while special protection devices are installed along the railway tracks to avoid sudden and dangerous overvoltages SECOM also developed switching power supplies with high

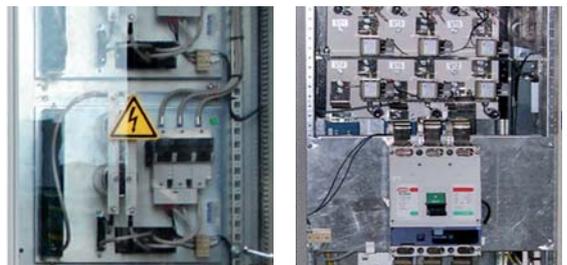
insulation level for substation auxiliaries. For Metro application SECOM developed new switching auxiliary power supply with an input voltage from 750 Vcc up to 3 kVcc and output power from 10 kW up to 300 kW.

- 1** Auxiliary converter for metro
- 2** Battery charger
- 3** CCFS Overvoltage protection inside view
- 4** Substation 3KV rectifier
- 5** CCFS Overvoltage protection





SECOM is present in the power electronic conversion market not only with several power converters but also offering a wide range of custom-made solutions depending on the clients requirements.



For this purpose SECOM can develop electrical design and offer plant solutions with special projects such as special bridge converter in a stand alone configuration or installed in an electrical panel .

In the same manner protection devices are offered to prevent electrical damages or failure due to line overvoltages, electrical network disturbances, flickers and sudden perturbances such as power transformers or disconnections.

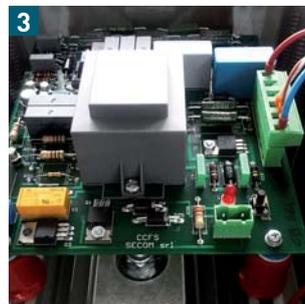
SECOM developed a complete family of high power line

filters and crowbar systems: filters are mainly used in the input line against overvoltages while crowbar often are used to protect output devices such as main generator field or magnetic coils.

SECOM has been always present in the special application market developing high technology devices as the power diode assembly for CERN in Geneve.

Special arrangement with High Power and High Frequency application have been developed for induction heating, metal surface treatments, furnaces and others.

- 1** CERN-INFN Power diode assembly
- 2** CERN-INFN Power plant
- 3** Electronic control
- 4** Flash fire frame
- 5** Flash fire inverter module





SECOM

HEAD OFFICE: Via Archimede, 18
20099 Sesto S. Giovanni - Milano (MI)

PHONE: +39 02.26.22.40.54

FAX: +39 02.24.06.945

WEB SITE: www.secompower.it

Since 1995 SECOM has obtained
an international quality certification



Made in Italy