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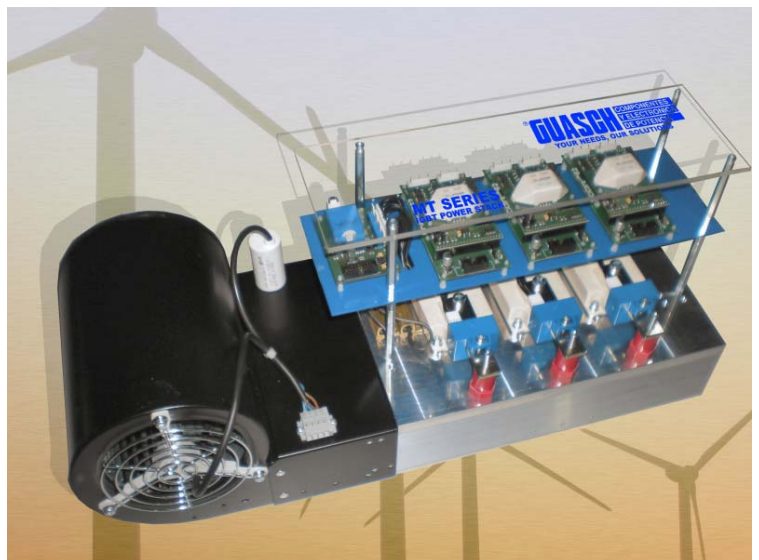
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## MT SERIES, modular power stacks

Barcelona, June 2<sup>nd</sup>, 2009. RECTIFICADORES GUASCH S.A. offers the most modulable way for designing power stages AC-AC or DC-AC by connecting rectifier block, DC-link block and IGBT power stack. This way, the customer (and not the builder) decides which the block that limits the power of the entire system. The customer can obtain in a short delivery time a wide range of power assemblies in a compact size. Each block is designed for obtaining the maximum efficiency by itself in the minimum dimensions. MT series is suitable to realize converters, choppers, half, full or three phases bridge inverters for motor control, welding, renewable energies, UPS... Other configurations and assemblies are possible by order.

Rectifier block is a rectifier bridge mounted over heatsink. It could be uncontrolled (diode bridge) half controlled or full controlled rectifier bridge. Single phase and three phase topologies are available. DC output of the rectifier is mechanically compatible with the DC input terminals of the DC-link. It may include thermostat at heatsink and fuses at AC input terminals.

DC-link block is formed by laminated busbar and the capacitor bank. Laminated busbar has the mechanical dimensions for direct assembly with rectifier block and IGBT stack. Capacitors from capacitor bank may be electrolytic or MKP, and there are a range of voltage/capacity values. Also you can connect two or more DC-link blocks in order to improve larger capacity and better current performance, or combine an MKP block with an electrolytic block to get a hybrid DC-link.



About IGBT power stack: IGBT modules mounted over extruded heatsink or high efficiency heatsink (air cooled by axial fan or radial fan) in a full bridge or three phase bridge topology. It includes gate drivers that can report failures in the IGBT and a complete sensor system who provides to the user information about AC output currents, voltage at DC input, temperature at of heatsink, thermostat and, in some references, internal NTC in the IGBT modules. IGBT power stack may include snubber capacitors if is required.

About Rectificadores Guasch, S.A. For more than 30 years serving the Spanish, Portuguese and growing worldwide markets with quality products at reasonable prices, GUASCH consolidates itself as a company capable of offering a wide product range in power electronics. Its independence guarantees the best solution. Our product range includes power stacks, semiconductors, passive components, heatsinks, protection fuses, press-pack clamps, control cards and hardware accessories.

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