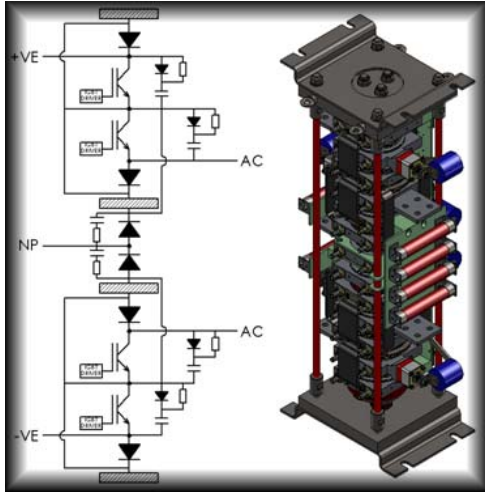


PRESS RELEASE

Date: 13th February 2014

IXYS UK Introduces 3-Level Press-Pack IGBT Inverter Stacks



IXYS UK Westcode Ltd. has introduced a range of standard three-level press-pack IGBT phase leg stacks with power rating up to 16 Megawatts. The new stack designs are available for applications at three voltage levels 3.3kV, 6.6kV and 10kV and incorporate IXYS UK's market leading press-pack IGBT technology.

The 3.3kV option is available as a single stack, comprising a complete phase leg of four 2400A press-pack IGBTs plus the anti-parallel and neutral point clamp diodes. The phase leg is rated at 8MW. Both the 6.6kV and 10kV solutions comprise discrete stacks of 1600A reverse conducting press-pack IGBTs and fast diodes which can be configured into the phase leg. Each phase leg would require 2 IGBT stacks and 1 diodes stack. The 6.6kV stacks are rated at up to 12MW and the 10kV units are rated up to 16MW. The 6.6kV stack comprise four series devices and the 10kV stacks six. Actual power ratings will depend on how the customers configure their control systems.

Each system benefits from direct water cooling to provide highly effective heat dissipation away from the devices and pre-loaded disc spring clamping to evenly distribute the applied force across the entire surface area of the device. Stacks use an isolated clamping rod system to limit the occurrence of eddy currents within the unit. The IGBT stacks also incorporate gate trigger boards and snubber circuits.

These new introductions are targeted for project development and will allow IXYS UK's customers quicker access to prototype development. IXYS UK can then either continue to supply a customised stack to their specifications or the components to fit their own design.

Stack part numbers are: a 3.3 kV unit XA1600GV45WT, 6.6kV units XA1000GV45WT/B (IGBT) and XA1000TV45WE/B (diode) and 10kV units XA1000GV45WT/A (IGBT) and XA1000TV45WE/A (diode).

Typical applications includes medium voltage drives for industrial, marine and renewable energy infrastructures including wind generation, plus very large drives for use in the oil, gas and steel industries. For applications such as electrical grid control switches and HVDC applications, please contact IXYS UK to discuss other circuit topology stack solutions.

For more information please go to the IXYS UK website at www.ixysuk.com or please contact us at (email: sales@ixysuk.com) or telephone: +44 (0)1249 444524 for quotation.

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