

WESTCODE

Press Release

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Westcode Introduces New Water Cooled Heatsink For High Power Semiconductors

Biel, Switzerland, February 12, 2009 — IXYS Corporation (NASDAQ:IXYS) announced that its wholly owned UK subsidiary, Westcode Semiconductors Limited, has introduced a new water cooled heatsink (cooler), thus expanding the heat sink offerings, to improve the cooling and efficiency of its power semiconductors. The nickel-plated copper heatsink has a 127mm diameter contact plate, making it suitable for press-pack devices with electrode contacts up to 125mm diameter.

The new heatsink incorporate geometric water channels designed to ensure low values of thermal resistance, even at moderate coolant flows, while retaining a robust structure compatible with the high clamping force required by large area power semiconductors. The geometric design used for the water channels also ensures a highly uniform cooling over the entire surface area. Typical heatsink to input water thermal resistance (for flow rate of 10 L/min), is 4.3 K/kW (two coolers + 1 semiconductor) and 5.6 K/kW (three coolers + 2 semiconductors).

“The high quality surface finish, with a typical flatness of 20 micrometers, makes these coolers ideally suited for use with our high performance Press-pack IGBTs (T1800EB45A & T2400EB45E), but not exclusively,” commented Frank Wakeman, Westcode’s Marketing & Technical Support Manager. “Additionally, they are designed to be used with all large area power devices such as Thyristors and Rectifier Diodes with contact electrodes from 90mm to 125mm diameter and clamping pressure up to 13×10^6 Pa. Typical applications for the coolers would be in Megawatt power level drives and high power rectifiers, such as in heavy industrial applications, or for electric trains’ trackside substations, as well as all applications in the electricity generation and distribution. The high efficiency cooling provided with these coolers, enables the customers to achieve high power density in their systems with much reduced footprint.”

The cooler is available in two versions: XW180GC34A without integral connecting bus bar and XW180GC34B with integral connecting bus bar. Limit dimensions of the cooler are 147mm x 142mm (262mm for the version with bus bar) x 34mm thick, water connection is 3/8 BSPP x 34mm Deep (minimum thread depth 14mm). Adapted versions with customised bus bar connections can be considered; please consult factory.

For data sheets please go to the Westcode website at westcode.com or please contact us at (email: sales@westcode.com) or telephone: +44 (0) 1249 444524 for quotation.

About Westcode

Located in Chippenham, England, Westcode Semiconductors Ltd is a leading manufacturer of very high power thyristors, SCRs and rectifiers ranging up to 6500 Volts and 15,000 Amps. Westcode continues to supply high technology components for a wide range of applications such as welding, AC and DC drives, rectifier supplies, uninterruptible power supplies, motor soft starts, transportation, induction heating, power conditioning, high energy physics and many other industrial uses.

About IXYS Corporation

Since its inception in 1983, IXYS Corporation has been developing technology-driven products to improve power conversion efficiency, generate solar and wind power and provide efficient motor control for industrial applications. IXYS, and its subsidiary companies, offer a diversified product base that addresses worldwide needs for power control, electrical efficiency, renewable energy, telecommunications, medical devices, flexible displays and RF power.

Safe Harbor Statement

Any statements contained in this press release that are not statements of historical fact, including the performance, rating, availability, reliability and suitability of products for various applications, may be deemed to be forward-looking statements. There are a number of important factors that could cause the results of IXYS to differ materially from those indicated by these forward-looking statements, including, among others, risks detailed from time to time in the Company’s SEC reports, including its Form 10-Q for the quarter ended December 31, 2008. The Company undertakes no obligation to publicly release the results of any revisions to these forward-looking statements.