

ARTICLE

Providing forward thinking security to Asia's power protection needs



Semiconductor, electronic, vehicle, food processing and many more industries, are improving their environmental impact, lifting productivity, and keeping costs down by installing PCS100 power quality solutions.

Industry and projects

Many major memory chip companies are finally starting to recover from a long stretch of losses and consolidation due to the over capacity of memory fabrications (fabs). Much of this noted recovery has been due to the additional efficiencies gained through conversion to 300mm fabs. This upturn and boost in capital has been critical to memory companies in Asia, as they prepare their technology and manufacturing process for protection against extreme weather conditions, associated power quality issues and costly production losses.

ABB's engineers have spent a lot of time in the market place, understanding customers real problems and concerns, to make sure products developed offer the benefits that really matter.

To date, ABB has installed 94 power protection systems into one of Asia's largest memory chip manufacturers based near Shanghai, with a further 16 new systems currently in transit. These new applications will bring the company's current capacity up from 108,200kVA to 124,700kVA - spread over the full range of applications sized from 100kVA to 1200kVA at 208 volts and 1500kVA at 480 volts.

The benefits offered by ABB's PCS100 power quality products are considerable. They include boosting productivity, the reduction of waste, and improvement in uptime of high technology production lines. They save energy in factories and manufacturing processes that improve efficiency and ultimately reduce cost.

The ABB team is proud of the positive impact they have on the environment, while also improving their customers bottom line protection and profits.

An ABB industry first

ABB's power electronics manufacturing facility in New Zealand will now also supply PCS100 power quality systems for a project based in China. Destined for the high tech thin film transistor liquid crystal display (TFT-LCD) industry, they are the first designed for a 8.5-G liquid crystal panel project. They will also be the first batch of PCS100 AVC technology to be applied to a domestic TFT-LCD industry on a large scale.

This order of PCS100 AVC units has been specifically designed to protect production equipment, and also control systems, where a short voltage sag has the capacity to cause incredible loss. A situation that can cause production equipment more than four hours to reboot after a simple shutdown.

The total capacity of the systems to be supplied is around 14.62MVA, which has almost three times the total capacity of a typical UPS solution previously known to be utilised in this type of project.

It is estimated that a further 29 PCS100 AVC applications, ranging from 150kVA to 800kVA, will also be manufactured for supply to this industry over the upcoming months in 2011.

To find out more about ABB's power protection solutions:

Web: www.abb.com/ups

Email: powerconditioning@abb.com

Additional information

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