

REFERENCE CASE STORY

ABB's Conceptpower DPA 500 uninterruptible power supply for the Taiwan stock exchange data center



On the world's trading floors, all kinds of financial instruments are bought and sold at lightning speed. Millions of dollars' worth of business is conducted in the blink of an eye. A typical stock exchange will be supported by a vast IT infrastructure and it is essential that this equipment keeps running.

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01 A stock exchange must be supported by a vast IT infrastructure.

The financial consequences of any power interruption could be very serious indeed. This is why when the the stock exchange in Taiwan needed the very best in uninterruptible power supplies (UPSs), they turned to the ABB Conceptpower DPA 500.

The basic element of ABB's Conceptpower DPA 500 UPS is a 100 kW slide-in module. Five of these can be installed in a single frame and six frames can be configured in parallel – giving a maximum rating of 3 MW. The Conceptpower DPA 500 is the only modular UPS on the market that can easily be scaled up to provide 3 MW of clean, reliable power. Modules can be added to the UPS as power requirements grow, thus avoiding the need to oversize the original configuration.

This set-up provides the high power density they were looking for and they can simply add modules to this initial set-up as power requirements grow. Uptime is obviously a major factor for the stock exchange data center in Taiwan, so the fact that online-swap technology can help achieve the so-called six nines availability (99.9999 percent) – highly desirable for data centers in pursuit of zero downtime – is very important.

Because the modules can be inserted and removed with the power on ("online-swap"), routine maintenance is simple and related downtime is avoided, too. The online-swap modularity not only improves availability, but it also reduces costs as service engineers spend less time on-site and any risks of data or production loss are minimized, and inventory levels of specialist spare parts are reduced.

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