ABB in Japan has secured not one but two orders for the newly launched PCS100 Medium Voltage UPS for a leading LCD company based in Japan. The first order is for a 2 MVA, 6.6 kV ultra-capacitor MV UPS, with the intention of increasing the system capacity up to 6 MVA as the facility load increases. The second order is a 4 MV 6.6 kV ultracapacitor MV UPS for another location in Japan.

In order for LCD facilities to produce highly technological devices for day-to-day electronic needs, systems are put in place to ensure continuous improvement and output is reached. The cost of lost production, downtime, lost quality and ultimately lost profit can be extremely significant for LCD manufacturing plants. The semiconductor processes in LCD facilities are highly sensitive and are dependent on a stable and well regulated electrical power supply to tools and equipment. The most common and costly power quality problem indicated by the customer in Japan was voltage sags caused by environmental factors, such as the weather. The PCS100 MV UPS will be installed to provide the energy to ride through these very deep voltage sags and short power outages, with the PCS100 MV UPS being suitable for direct connection to many of the tool loads.

ABB’s regional sales and marketing manager of Northeast Asia for Power Protection, Takashi Yamada, commented on the achievement, “This first order for medium voltage UPS will be a good reference in the market, especially in a tough industrial country like Japan. With ABB’s technology in place, I am confident we will continue to work and build upon the system, due to the modularity the PCS100 MV UPS can offer.”

Why medium voltage
The PCS100 MV UPS has been designed to provide clean, reliable and efficient power, and lower costs for customers in industry and in large data centers who have sensitive or critical loads. The single-conversion topology used is a natural choice for medium voltage as losses are extremely small, meaning efficiencies well in excess of 99.5 percent can be achieved. The PCS100 MV UPS can be installed to protect the complete supply or just selected sensitive loads. The PCS100 MV UPS can start at 2 MVA and grow in size as the factory or data center develops. As well as EDU modularity, the PCS100 MV UPS has inverter modularity, giving extremely high levels of availability through inverter redundancy.

To find out more about ABB’s medium voltage UPS solutions:
Web: [www.abb.com/ups](http://www.abb.com/ups)
Email: [powerconditioning@abb.com](mailto:powerconditioning@abb.com)