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ABB wins back major Chinese manufacturer



After losing out to competition in China Star Optoelectronics Technology's (CSOT) phase two project, ABB has again taken control and won the contract to provide sixteen PCS100 AVC-40 Active Voltage Conditioners to China's major flat panel display (FPD) manufacturer.

With China's FPD industry booming in recent years and consumer demand expected to remain strong in China, local makers are expanding their production capacity. By 2018, China is forecast to become the largest FPD-producing region in the world, accounting for 35 percent of the global market.¹ Thus, to further enhance the competitiveness of the company, CSOT are increasing operations and investing 16 billion yuan into a new 6G facility in Wuhan City. The flat panel display (FPD) fabrication environment is among the World's most competitive and technologically complex, making reliable power protection a paramount addition to operations.

ABB's Active Voltage Conditioner has already protected CSOT's Shenzhen factory from several voltage sags over the years, which caused other unprotected loads to shut down. Therefore the

investment in ABB's technology for the new Wuhan factory made complete sense, to ensure they receive the advanced power protection required to protect their sensitive process tools.

Mr Dai. Junsong, Power manager for the CSOT Wuhan project says "ABB's Active Voltage Conditioners in our Shenzhen factory have performed very well. We experience a number of thunderstorms in summer here in Shenzhen and the AVC has always successfully protected the loads from voltage sags."

A reliable low-maintenance solution

The PCS100 AVC-40 is an innovative solution to industrial voltage supply problems. Providing conditioned power without relying on energy storage systems means that the system has a small foot print and is free from the cooling (air conditioning) requirements of battery units.

"We chose ABB's PCS100 AVC-40 for three important reasons. Its performance in our current factory in Shenzhen where it has never dropped a load in four years, it doesn't require batteries and it is extremely reliable," continued Mr. Dai.

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01 Construction of China
Star Optoelectronics
Technology's new facility
in Wuhan City
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02 ABB's PCS100 AVC-40



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The PCS100 AVC-40 is frequently implemented in businesses using sensitive or high-precision equipment where the loss of voltage for even a few milliseconds results in the failure of the machinery and damage to its yield. The PCS100 AVC-40 corrects under or over-voltage events in less than five milliseconds, allowing sensitive equipment to remain operational throughout the disturbance.

References

[1] IHS Inc. (NYSE: IHS), the leading global source of critical information and insight. Available from <https://www.ihs.com/index.html> [accessed 07.11.15]

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

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