Active Harmonic Filter

Securing operations at the largest data center in Asia

Acme Electric®

PQS™
Power Quality Solutions

Challenge

The largest data center in Asia hosts numerous important IT companies. The facility was suffering from severe harmonic distortion issues caused by electrical equipment, including computers, LED lighting, and UPS systems.

Data centers are mission critical. Securing the power quality to maintain operations is the top priority of the building owner and technicians. Eliminating harmonic distortions maintains the quality and integrity of the business.

Solution

A third party performed a power quality audit. The results revealed harmonic distortion above allowable limits. It was obvious that a reliable and robust solution was needed.

The customer chose the APEX Active Filter technology. Deciding factors were the advanced 3-level NPC inverter technology, compact design, simple operation, and easy maintenance. Six harmonic filters were installed in three distribution boards, parallel to the loads.

Result

Thanks to fast response time and robust design of APEX Active Harmonic Filters, harmonic distortion was reduced to acceptable levels. Power factor was improved close to unity at 0.97-0.99, achieving regulatory performance.

The customer was pleased with the effective and reliable solution and is now considering a new purchase for another project.

Application:

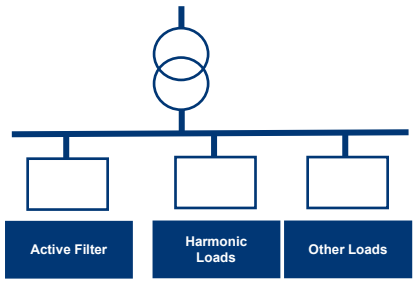
Data Center

Location:

Asia

Customer Background:

At 85,548 m^2, this large DC facilitates important IT customers, including Microsoft and Amazon



Customer Benefits:

- Compliance with harmonic limits
- Improved power factor
- Secure operations
- Continuous power supply

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