



MERUS POWER

Active Harmonic Filter

Securing operations of the largest data center in Asia

Challenge

A large data center in Asia hosts numerous important IT companies. The operators are some of the largest in Asia. The data center was suffering from severe harmonic distortions caused by electrical equipment, such as LED lighting, computers and UPS systems.

The owner of the building needed to secure the operations and eliminate harmonic distortions in order to maintain the quality and integrity of the businesses. Data centers are mission critical and require excellent power quality in order to maintain reliable operations.

Solution

The facility owners and technicians were concerned over the harmonics, and a third party was asked to perform a power quality audit. The results revealed harmonic distortion above the allowable limits. It was obvious that a reliable and robust solution was needed.

Merus Power was chosen as the preferred supplier, as the customer was convinced of the advanced 3-level NPC inverter technology used in Merus™ solutions, along with compact design, ease of operation and maintenance. Also appreciated were the high-quality product finishing and manufacturing in Finland. The solution consisted of 6 Merus™ Active Harmonic Filters, installed in 3 distribution boards, and parallel to the loads.

Result

Thanks to fast response time and robust design of Merus™ Active Harmonic Filters, harmonic distortions are now below the allowable limits. The power factor was improved close to unity at 0.97-0.99. The building is now meeting the limits set by the regulators.

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



Application:
Data Center

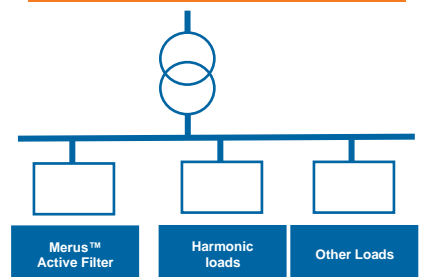
Location:
Asia

Power quality issues:

- High harmonic distortions

Merus™ Solution:

- Merus™ Active Harmonic Filters



Customer Benefits:

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

Merus Power Plc

www.meruspowers.com

Address: Pirkkalaistie 1, 37100 Nokia, Finland

Email: sales@meruspowers.com

Phone: +358 20 7354320

Y-No: 2230775-9

VAT No: FI22307759

The information and trademarks contained in this document and any copyright attached to it is the sole property of Merus Power Plc. Any unauthorized reproduction or redistribution of any part or as a whole is strictly prohibited without written permission of Merus Power Plc. Merus Power Plc reserves the right to alter or discontinue the products and/or specifications referenced here in at any time without notice. Merus is a registered trademark of Merus Power Plc.
© Copyright Merus Power Plc, 2021.