

# Case Study: UPS systems ensure problem-free cruises



## Client:

- AIDA cruises

## Industry:

- Shipping industry

## Scope:

- UPS solution especially adapted for customers from cruise ship industry

- ConceptPower Modular with 20 kVA modules

As a tour operator and cruise line combined in one, AIDA Cruises offers fascinating holiday getaways worldwide to destinations such as the Mediterranean, the Canary Islands, the North and Baltic Seas, the Caribbean, Central America, North America, Asia and Dubai. This innovative company, with the highest turnover and number of passengers in the German market, presently consists of six club ships. All of them are operated in accordance with the highest international quality, environmental and safety standards. These are particularly stringent for safety on the open sea, since critical systems require multiple safeguards. Responsibility for passengers

Today in Germany, more than 700,000 people take a holiday cruise every year; electronic superintendent Michael Sass has had technical responsibility for these passengers for the last five years. "When the AIDAcara went into service, it was equipped with Powerbox UPS systems," he recalls. "They worked fine, but recently they had reached the point where their replacement parts were becoming increasingly expensive to obtain." So along with his team, he started looking for alternatives which would be able to handle the safeguarding of both the central IT and navigation systems.

Michael Sass does not give a particular brand preference automatically, but selects the systems depending on how they are going to be used. Thus, he received three tenders, including one from Newave, "The modular concept was perfect for us," says Michael Sass. "Compared with a monolithic one-piece system, subsequent installation was considerably easier." The financial aspect of Newave's tender also pleased the engineer: the investment costs were only slightly more than those for a monolithic UPS; plus the costs were lower for the overall service life. "I have to take into account the overall costs; the initial price has little to do with the expenditure for five or ten years of service life." Thanks to the simplified service provided by Newave's UPS systems – which do not need a spare parts stock – the maintenance contracts are less expensive than those of other providers. Moreover, downtimes are a matter of minutes, because individual defective power modules can be exchanged for new ones. With so many convincing arguments, it Case Study: UPS systems ensure problem-free cruises Client: - AIDA cruises Industry: - Shipping industry Scope: - UPS solution especially adapted for customers from cruise ship industry - ConceptPower Modular with 20 kVA modules.



### Quickly brought into service

The electrical team's expectations were completely confirmed during installation. Newave installed the Conceptpower UPS systems in less than a day. All three UPS systems ran at the first go; no module has broken down since initial commissioning, despite the notoriously rough conditions on board a ship. This is surely also a merit of the UPS systems specifically designed for ships – Newave adapts its systems appropriately for customers from particular industries. The housings are thus fitted with shock absorbers and the cabinets sealed with a special salt-water resistant coating. In case of emergency, AIDA Cara also has a replacement module on board which the ship's electrician can exchange himself in ten minutes. The UPS reports alarms and error messages to the bridge via cable, a security measure required by the strict maritime insurance regulations.

Of course, Conceptpower UPS systems could also send such reports via TCP/IP module; however, a firmly connected cable is the more robust solution. Moreover, the ship's electrician checks the correct functioning of the UPS applications every three months. Michael Sass only had to rely on the manufacturer's support during the initial phase; a call was sufficient:

"We have a 4-wire supply network on board instead of the normal 5-wire supply network. In addition, our medium

voltage is higher. This required a few adaptations to the UPS which we were able to carry out ourselves with Newave's telephone support. Michael Sass is just as pleased with the functioning and ease of use of Newave's UPS systems as he is with the way they operate their business.

### About Newave

Newave Energy is a leading manufacturer of uninterruptible power supply solutions that enable customers to protect their critical applications from operational losses and ensure business continuity. Innovation, quality, serviceability and environmental friendliness are key characteristics of our power protection solutions. Newave Energy has introduced modularity and transformer-less UPS-technology several years ago and these are the most important architectural trends in the UPS market today. Our mission is to help our customers from various industries to protect their critical applications efficiently and to lower environmental impact in a sustainable way. The company operates its own sales and service offices in eight countries and a worldwide network of business partners. Newave Energy continues its focus on development and manufacturing of leading power protection technology while worldwide we provide comprehensive services such as technical consultancy, maintenance and service packages. The company was established in 1993 and is headquartered in Quartino (Switzerland)

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