

FORZA and ITELOGIC Power a Mining Success Story in Antofagasta ⚡

In the demanding and competitive world of mining, operational continuity is a fundamental pillar. In one of the world's largest lithium mines, located in Antofagasta, Chile, a critical need was identified: securing the stability of its **Data Center**, which manages the **Operational Technology (OT) network**. This data center relied on three power sources: the electrical grid, a Battery Energy Storage System (BESS), and a generator.

The main challenge was to overcome "zero-crossings"—momentary voltage drops that occurred during the transition between power sources, causing critical system interruptions. To solve this issue, FORZA, along with its **Enterprise Partner**, ITELOGIC, implemented a robust and reliable solution.

The FORZA and ITELOGIC Solution

The project involved integrating two **FDC-206KMR UPS** units from FORZA's Atlas series. This double-conversion online unit was chosen for its local availability, rack-mount form factor, and technical capacity, which perfectly fit the requirements of the mine's EMS **Orion-3x250 system**. The **FDC-206KMR UPS** has a capacity of 6000 VA/6000 W, a power factor of 1, and an input range of 110-300 VAC, ensuring maximum reliability for critical equipment.

Key Results and Benefits

The implementation of this energy backup solution completely eliminated the risk of zero-crossings. This elevated the energy and communication availability to **100%**, a crucial milestone for the operational continuity of the mine's OT network.

In addition to stability, the solution provided an **autonomy of 7 hours**, ensuring the Data Center's communication remains uninterrupted. According to ITELOGIC's Project Manager, Claudio Cares, choosing the FORZA **FDC-206KMR** model was key to meeting project deadlines without compromising the quality of the energy backup.

This success story not only demonstrates FORZA's ability to provide high-performance, reliable power solutions, but also the synergy with its partners in tackling the industry's most complex challenges.

About the FORZA Atlas Series

The FORZA Atlas series represents the latest in power protection. Its modular and scalable UPS units, such as the **FDC-206KMR**, are ideal for demanding environments like data centers, hospitals, and telecommunications systems, offering reliable backup and maximum flexibility. The UPS is compatible with generators and features DSP technology, a high-efficiency ECO mode, and a remote shutdown function (EPO).

Want to secure the energy continuity of your critical infrastructure? Contact us to design a custom solution.