UPS Backup Solution for High-Security Critical Infrastructure in Florida

Company

Superior Power Technologies

Location

Florida, USA

Product

XPL 8000FTFR

Installation Date

2025

Application

High-Security Data Center UPS

In critical infrastructure environments, continuous power is essential to support real-time operations such as surveillance, facility access, and system control. A recent project in Florida deployed megawatt-class UPS systems in series, presenting a dual challenge to the battery solution: high-rate output and long-term stability. The system was designed to deliver one-hour backup runtime per UPS system, requiring both high power and sustained reliability.

To address these critical demands, the facility adopted CSB's XPL8000FTFR batteries — part of the high-rate XPL-FT series, specifically designed for short-duration, high-power backup. Each 1MW UPS system was supported by four strings of batteries, configured in a series arrangement. With a front terminal design that simplifies installation and maintenance, and pure lead construction that enhances both stability and longevity, the XPL-FT series provides immediate and reliable power delivery for mission-critical applications such as data center UPS systems. Backed by UL1973 and UL1989 certifications, the XPL-FT series meets the rigorous safety and operational standards expected in high-reliability infrastructure.

In this project, Superior Power Technologies, an experienced local expert in power system integration, provided full-cycle support — from early-stage planning to on-site installation and technical service — ensuring a smooth deployment and timely delivery. The customer — impressed by the system's high-rate discharge capability, stable performance during commissioning, seamless integration, and reliable daily operation — decided to replace two additional UPS systems with the same CSB solution.

Trust is never assumed; it is earned — built gradually through every successful deployment.