



Overview

CASE STUDY:

Baudouin | Visa Spa | Airport | Italy

PRODUCT:

[1 x Baudouin 6M21G550/5 PowerKit Engine](#)

DISPLACEMENT:

6M21 = 12.54 litres, 6-cylinder diesel

TOTAL POWER OUTPUT:

500 kVA

DUTY:

ESP Emergency Standby Power

APPLICATION:

Airport – Emergency Backup Generator

PARTNERS:

OEM: Visa SpA

INSTALLATION: Regional Airport of Valle d'Aosta "Corrado Gex"

MEDIA:

[Click here to watch the full product video on LinkedIn](#)

500 kVA Baudouin Standby Power at Aosta Airport

The Regional Airport of Valle d'Aosta (Corrado Gex) is a transportation hub serving the Aosta Valley region in northern Italy. As a vital facility supporting commercial flights and tourism, the airport required a reliable emergency power system to maintain essential services during power outages. To address this need Visa SpA selected a Baudouin engine to provide a robust and efficient standby power solution. Leveraging over a century of expertise in engine manufacturing, Baudouin provided Visa with its advanced 6M21G550/5 PowerKit engine, specifically designed for mission-critical airport applications.

Considering the airport's emergency power requirements, Visa SpA selected a 500 kVA genset equipped with Baudouin's 6M21G550/5 PowerKit engine. This engine model was specifically selected due to its exceptional performance, fuel efficiency, and proven reliability under demanding operational conditions. Designed for Emergency Standby Power (ESP) duty, the engine delivers continuous, stable power output to maintain crucial airport operations during power interruptions.

The Baudouin 6M21G550/5 engine integrates several advanced features that ensure superior performance and durability. The engine's high-pressure common rail injection system optimizes fuel combustion to improve efficiency and reduce emissions. The engine's electronic governor (ECU) provides precise speed control, ensuring stable voltage and frequency output even under fluctuating load conditions—essential for maintaining the sensitive electronic equipment required for airport operations. Furthermore, its turbocharged, air-to-air aftercooled system enhances air intake density and cooling performance, enabling the engine to sustain high power output without compromising efficiency. Equipped with a 50°C-rated cooling system, the engine operates reliably in high-temperature environments without derating. Its extended mean time between overhauls (MTBO) further enhances durability, reducing maintenance intervals and lowering lifecycle costs.

To ensure seamless control and monitoring, the genset is managed by an advanced ONIS VISA Guard Revolution 4.0 control panel with Ethernet connectivity, enabling remote monitoring and management. This feature allows the airport's technical team to oversee performance in real-time, ensuring prompt response during emergencies. The genset is housed in a dedicated facility equipped with sound attenuation features for noise reduction, ensuring minimal disruption to airport operations.

Additionally, the installation includes a 900-liter integrated fuel tank equipped with the intelligent Fuel Tutor Kit, ensuring optimized fuel management and extended runtime capabilities. This combination ensures prolonged operation during extended power outages, enhancing the airport's energy resilience.

Baudouin's extensive engine range—covering power capacities from 20 kVA to 4150 kVA—offered the client the flexibility to standardize their power solutions with a single, trusted supplier. This comprehensive product portfolio provided excellent value for money.

The successful integration of a high-quality Visa SpA genset, powered by Baudouin's advanced engine technology, ensures the Regional Airport of Valle d'Aosta benefits from a highly reliable and efficient emergency power solution, maintaining critical functions under all circumstances. This successful collaboration between Baudouin and Visa SpA highlights Baudouin's reputation for delivering dependable, high-performance engines for critical backup power applications.

