

# STAMFORD® STANDBY POWER

## Case history

Power system to meet stringent technical requirements and fast-track project execution

**Where:**

**Oman**

**Specified:**

**3 x STAMFORD S9 HV**

**Prime Mover:**

**Cummins QSK 78-G9**

**Generating Set:**

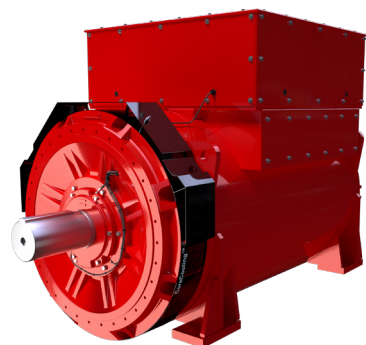
**PI Model: PI 3000C-MV**

**Purpose:**

**Standby power at port facility**

Precision Industries (PI), a trusted manufacturer of diesel generating sets established in 2005 under the umbrella of Beta Holding, required a reliable standby power solution for a port facility. With a reputation for excellence across the GCC, Middle East, and Africa, PI sought a alternator that could meet stringent technical requirements and tight project deadlines.

Precision Industries LLC is a specialized manufacturer of customized power generating sets for the special applications such as Oil & Gas industry, Utility, Infrastructure, Telecom, Data Center and other vital governmental sectors, they are known for high end engineering capabilities and state of art manufacturing process within region.



**STAMFORD | AvK™**

POWERING TOMORROW, TOGETHER

STAMFORD S9

# “STAMFORD I AvK provided tailored solutions, exceptional support, prompt manufacturing and delivery”



## Challenges

Precision Industries faced several challenges. The project required specialized Current Transformers (CTs) for generator differential protection, ensuring compatibility with the switchgear manufacturer. The timeline was aggressive, necessitating swift production and delivery. Additionally, located at a port in Oman the alternator needed to operate reliably in an environment with very high humidity of above 95%, and corrosive atmosphere. Finally, the customer demanded a globally recognized brand known for quality and reliability, particularly for 11 kV.

## Solution

For this project, Precision Industries required a power solution with a total capacity of 7.5 MVA, distributed across three units of 2500 kVA at 11 kV each. STAMFORD supplied three STAMFORD S9H1D-D41 alternators, paired with Cummins QSK 78-G9 engines. To meet the environmental challenges, the alternator incorporated Class H insulation, Class F temperature rise, DM 110 AVR, RTDs for windings and bearings, and protection class 5P20 CTs with differential protection Class Px. The alternators were designed to withstand a 50°C ambient temperature, salt, and humid conditions, ensuring durability at the port-side installation.

Key project deliverables included the customization of CTs for differential protection, rapid delivery to align with the fast-track timeline, and technical support during the bidding stage. STAMFORD demonstrated its capacity to meet these requirements while maintaining the highest quality standards.

## Customer Decision

Precision Industries selected STAMFORD for its proven ability to deliver on time for critical projects. The customization options and stringent protection capabilities offered by STAMFORD, combined with its reputation for reliability in demanding environments, solidified the decision.

## Outcome and results

The project was successfully completed with the installation of three STAMFORD alternators in June 2024, adhering to the tight deadline. The system operated reliably despite environmental challenges such as salt, humidity, and rainfall. Precision Industries expressed high satisfaction with the role of STAMFORD I AvK in providing tailored solutions, exceptional support, prompt manufacturing and delivery were also recognized and appreciated. This project exemplifies STAMFORD's capability to deliver reliable, customized power solutions under challenging conditions and strict timelines. By offering high-quality alternators, exceptional support, and timely delivery, STAMFORD reinforced its position as a trusted partner for Precision Industries and paved the way for future collaborations.

PI successfully executed the complete project management process, covering every critical aspect, including engine sizing and selection, alternator sizing, cooling system design, containerization, fire detection system, and seamless integration of control and protection systems.

As part of the package, a fully welded, totally enclosed Drop-Over Type Enclosure was provided, featuring a UL 142-certified fuel tank to ensure safety, durability, and compliance with industry standards.



We are here to support your future decarbonisation goals, through our end-to-end expertise in versatile solutions. Backed by the reassurance of our world-renowned brands recognised for reliability and complete peace of mind, we are with you on your journey towards sustainability.

[stamfordavk.li/future-ready](https://stamfordavk.li/future-ready)



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