HIMOINSA
A YANMAR COMPANY

STAMFORD®
STANDBY

Case history

Uninterrupted power supply to a national building

Where:
Bangkok, Thailand

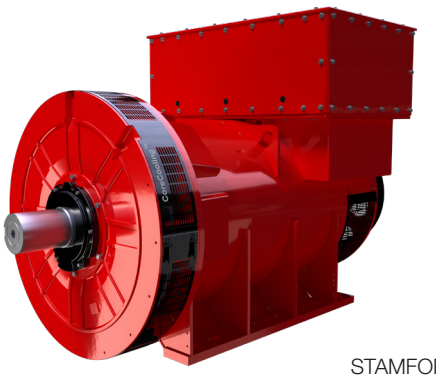
Specified:
STAMFORD S7

Prime Mover:
Mitsubishi

Purpose:
Uninterrupted power supply to a national building in an urban environment, with temperatures exceeding 38°C

Sappaya-Sapasathan is Thailand's national parliament building and the world's largest legislative complex, covering over 424,000m². Located in central Bangkok along the Chao Phraya River, it houses chambers for both the House of Representatives and the Senate, along with museums, banquet halls, and a convention centre.

HIMOINSA, part of YANMAR ENERGY SYSTEM, is a global manufacturer of power generation systems with over 20 sites worldwide, delivering innovative, high-quality energy solutions for critical infrastructure like the Thailand Parliament.



STAMFORD S7

STAMFORD | AvK™
POWERING TOMORROW, TOGETHER

“STAMFORD | AvK delivered reliable performance and advanced technology essential for uninterrupted power at a critical government facility.”

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THE CHALLENGE

The critical function of this facility demanded an uninterrupted power supply to support national legislative activities. Bangkok’s intense heat—exceeding 38°C during the dry season—and the urban heat island effect significantly challenged the design of backup systems. The dense urban location also limited space and required a solution that addressed noise control and space optimisation.

THE SOLUTION

HIMOINSA provided five 1.1MW generator sets, each powered by Mitsubishi engines and equipped with STAMFORD® S7 alternators and CEA7 controllers, ensuring a total installed capacity of 5.5MW.
To accommodate the demanding urban environment, remote radiators were installed on the genset, relocating the heat source to the building’s rooftop. This design improved both layout flexibility and noise reduction.
The gensets were configured to operate efficiently in Bangkok’s high ambient temperatures using high-powered fans and advanced electronic control panels.
The system was also equipped to switch automatically to backup power within seconds during a grid failure, ensuring the continuous operation of critical services.
Heat exchangers were used to regulate engine temperatures, ensuring safety and operational reliability.

At the heart of the system, STAMFORD alternators and control technology provide seamless switching to standby power within seconds of grid failure.

WHY STAMFORD | AvK

The customer selected STAMFORD | AvK for the reliability and efficiency of its products. With a strong track record in mission-critical infrastructure, STAMFORD | AvK provided the advanced technology and dependable performance essential for ensuring uninterrupted power at one of Thailand’s most important government institutions.

WHY STAMFORD S7 ALTERNATORS

The STAMFORD S7 forms part of the renowned STAMFORD S-Range, delivering exceptional performance across a voltage output spectrum of 380V to 11,000V. Engineered with an optimised power-density core and the advanced CoreCooling™ system, the S7 range offers superior thermal management, ensuring enhanced efficiency and reliability even in demanding operating conditions. With its innovative design, flexible mounting feet, and compact form, the STAMFORD S7 range provides ease of integration, space optimisation, and simplified maintenance — setting a new standard for alternator performance and adaptability.

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