



STAMFORD® PRIME POWER - RENTAL

Case history

Low-noise, high-efficiency power solution for the rental and events market



Where:

Italy

Specified:

STAMFORD S5

Prime Mover:

Scania DC16 Stage 5

ELCOS Power Generators, headquartered in the province of Cremona, Italy, has designed, produced, and assembled power generation systems for over 45 years. Serving both domestic and international markets, ELCOS specialises in customisable generator sets from 1 to 3150 kVA for emergency, self-generation, and cogeneration applications. The company supports the rental power sector, delivering flexible and dependable energy solutions.

Purpose:

Deliver highly reliable power solutions engineered to withstand frequent relocation, diverse load demands, and harsh site conditions. The system prioritises ultra-quiet operation and ease of maintenance, ensuring peak performance without compromising environmental comfort



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STAMFORD S5



“STAMFORD alternators have consistently proven to be reliable, durable, and efficient - essential qualities for rental fleet operations”

– ELCOS Power Generators



Rental application requirements

ELCOS's customer required alternators capable of maintaining exceptional performance in constantly changing conditions. Each rental deployment presents unique challenges — from environmental factors to load variability — demanding equipment that offers durability, quick adaptability, and minimal maintenance.

The STAMFORD S5 solution for mobile rental power

To meet these requirements, ELCOS selected STAMFORD S5 alternators, paired with Scania DC16 078A 02 43 Stage V engines, for its mobile generator fleet.

The solution features a 700 kVA Twin-Power configuration, consisting of two fully redundant, synchronised units housed within a compact, highly mobile enclosure. To maximise efficiency and performance, the system is cooled using inverter-driven electric fans, significantly reducing noise levels while optimising thermal management. This configuration delivers a versatile, plug-and-play power source that complies with the most stringent low-noise emission requirements and enables rapid on-site deployment through quick-coupling connectors.

The STAMFORD S5 low-voltage alternator features enhanced thermal management through its CoreCooling™ high-efficiency airflow system and is equipped with the AS440 Digital AVR. Selected for its robust design and proven reliability, the S5's compact footprint and ease of servicing make it an ideal solution for the demanding conditions of rental and temporary installations.

- **Redundancy and synchronization** – Clearly emphasizes operational continuity and backup capability.
- **Cooling technology** – Highlights inverter-driven electric fans as a key advantage for both noise reduction and efficiency.
- **Compactness and mobility** – Effectively links high power density to ease of transport and rapid deployment.

Performance and reliability outcome

STAMFORD S5 alternators have delivered outstanding reliability and long-term operational consistency for ELCOS and its customers' rental requirements. The company reports reduced downtime, improved user confidence, and simplified fleet management.

Customer trust

ELCOS's continued partnership with STAMFORD | AvK highlights the enduring performance and trust in STAMFORD technology, recognising the critical role of STAMFORD alternators in ensuring reliable, flexible, and high-performance power.



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.



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