



STAMFORD® STANDBY (GRID)

Case history

Power solutions for grid peak shaving applications

Where:
China

Specified:
STAMFORD S6

Prime Mover:
Cummins KTA50-G3

Purpose:
To provide reliable standby power for grid peak shaving, ensuring stable power supply during periods of high demand and grid instability

Baifa Power (Wuxi) Ltd., based in Wuxi, China has dedicated 33 years to the research, development, and manufacturing of diesel generator sets. The company's products cover a power range of 10 to 4,000 kVA. Through years of development, Baifa Power has become a significant manufacturer of generator sets within China, offering comprehensive power system solutions from design to operational support.



STAMFORD | AvK™
POWERING TOMORROW, TOGETHER

STAMFORD S6

“STAMFORD® delivers reliable alternators backed by a comprehensive aftermarket network across 120+ countries. Their proactive cooperation was vital in meeting our tight timeline and ensuring on-time delivery and successful deployment.”



Project Background and Objectives

In recent years, Central America and the Caribbean have faced frequent large-scale blackouts. These power shortages are often caused by ageing infrastructure, fragile grids, and outdated equipment prone to failure. Partnering with local utilities, Wuxi Baifa deployed over 200 diesel generator sets as reliable backup power sources. These units played a vital role in ensuring continuity of power supply for critical facilities and commercial operations during grid instability.

Technical Solution and Implementation

During this process, STAMFORD collaborated closely with Wuxi Baifa, providing efficient and stable generator set solutions. Each unit was equipped with a STAMFORD S6L1D-F4 alternator and a Cummins KTA50-G3 engine, delivering an output power of 1,000kW.

Why STAMFORD | AvK was selected

In peak shaving scenarios – when power demand surges or primary generators fail – backup equipment must start quickly and begin supplying electricity reliably. During grid fluctuations, generators are also required to deliver precise voltage regulation and reactive power control. STAMFORD alternators offer superior electrical performance and parameter configurations that align perfectly with these demands. Moreover, since peak shaving stations are often installed outdoors, sometimes in dusty or harsh environments, STAMFORD alternators provide robust protection against tough conditions. This ensures stable operation and maximizes uptime.

Global coverage and aftermarket support

As Baifa accelerated its global expansion, overseas projects are becoming increasingly critical. STAMFORD, as a world-renowned brand, provides not only reliable generator products but also a comprehensive aftermarket service spanning over 120 countries. This provides significant support for Baifa in international markets. In this project, with its tight timeline, STAMFORD's proactive cooperation was vital to ensuring our on-time delivery and successful deployment.



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

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Part No. CS_Baifagrid_S6_EN_HP_Rev. 01