

CONQUERING INDIA'S POWER CHALLENGES: THE CRITICAL ROLE OF SOLLATEK'S FSPE

Complete Voltage Stabilisation and Protection for
All Refrigeration and OEM Applications

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Western Refrigeration is the largest manufacturer of commercial refrigeration equipment in India. To maintain its market dominance, the company ensures the quality and reliability of its equipment. Due to significant supply issues that plague the vast country, their solution to combatting this is the Sollatek FSPE.



Addressing India's Unstable Power Quality

Unstable power quality is a common problem in parts of India, especially in rural areas, posing serious challenges for industries that depend on electrical appliances. The commercial refrigeration industry is particularly affected, as power fluctuations can disrupt the supply chain and impact businesses that store beverages and perishable goods.

Refrigeration systems rely heavily on the compressor to function effectively, making it a crucial component in keeping our food safe and beverages cold. However, power fluctuations in India, ranging from 110V to 290V, pose a serious threat to the operation of these appliances. Low voltage reduces the efficiency and lifespan of compressors. An inefficient compressor leads to inadequate cooling. Poor refrigeration negatively impacts sales because consumers are less likely to buy beverages that aren't properly chilled. Repeated exposure to low voltage can cause damage to the compressor, therefore increasing refrigerator downtime and repair costs.



10 Years

over a decade of sales & support



1 Million

units supplied



81%

voltage boost
110V to 200V



An Advanced Solution for Harsh conditions

Western Refrigeration needed a product that could address multiple issues caused by India's unstable power supply. One significant problem is voltage spikes and surges, which frequently threaten the functionality of refrigeration equipment damaging its electronics which can compromise refrigeration systems.

The Sollatek FSPE offers protection against these spikes and surges, ensuring reliable performance. To maintain their reputation for reliability, it is crucial for Western Refrigeration to equip their products to handle all power-related challenges effectively.



Our Solution: Enhancing Voltage Stability

The Sollatek FSPE addresses the prevalent issue of low voltage in many parts of India. It boosts voltage from as low as 110V up to 200V, to ensure a good, stable power supply to the compressor. This ensures the contents of the cooler/freezer remain in optimal selling condition. By increasing the voltage to the required level, the FSPE enables refrigeration compressors to operate effectively, even in very low-voltage conditions. This capability is crucial for maintaining cooling systems that preserve beverages and perishable goods at the desired temperatures.

The FSPE's superior performance is achieved through its large copper transformer and upgraded electronics, which improve its voltage boosting capability. These enhancements make the FSPE highly effective in environments with extreme voltage fluctuations.



Sollatek's expertise extends worldwide through local networks

Established for over 40 years in the United Kingdom, Sollatek is a manufacturer of innovative products in power control, energy saving, temperature control and solar energy. Operating from 12 countries and a global distribution network in 60 more. Sollatek has grown to become a household name, particularly in harsh and demanding environments where reliability and affordability are essential to everyday life. The Sollatek voltage protection product range now includes full lines of voltage switches, stabilisers, conditioners and uninterruptible power supplies (UPS).

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