

POWER SUBSTATIONS

COMPACT HIGH-VOLTAGE COMPATIBILITY IN CONFINED SPACES



CHALLENGE

A power utility operator needed to deploy IT-grade networking equipment in substations using high-voltage 54–165V DC power. Limited cabinet space and strict safety standards complicated integration.

SOLUTION

Rackmount.IT engineered a space-efficient DIN kit with built-in high-voltage DC-DC conversion, shielding, and thermal optimization, all packaged to fit tight electrical compartments.

RESULT

The deployment was fully compliant with substation safety protocols, allowing for secure, reliable IT integration without any changes to cabinet design or layout.