



Standby Power

> Case History

Samsung SDS Software Institute, Suwon

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Where:

Suwon, South Korea

What:

Fully integrated standby power system comprising seven Cummins Power Generation C2000 D6 gensets individually controlled by PowerCommand digital paralleling PCC3201 controllers. The seven gensets are controlled by two DMC 200 master controller system

Purpose:

To provide uninterrupted power for critical data storage and research operations in the event of utility failure

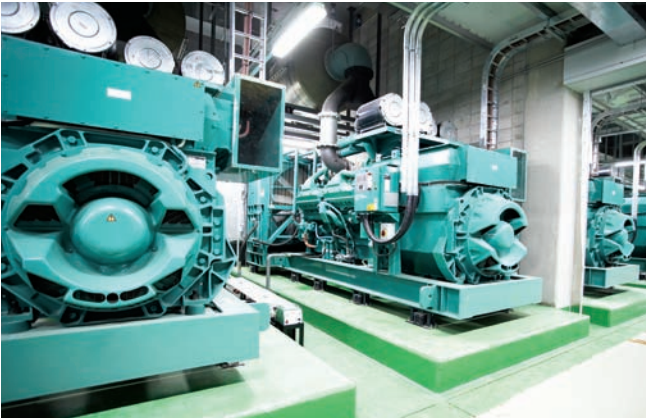
Primary choice factors:

Cummins Power Generation was able to provide a one-stop fully integrated, turnkey power solution including design, manufacture, installation, commissioning and on-going maintenance services

Leading Korean IT data and research centre relies on standby power from Cummins Power Generation

SUWON, SOUTH KOREA – Samsung SDS is the top integrated IT service provider in South Korea and the Asia Pacific region. The company was established in 1985 as a subsidiary of Samsung Group, and has been delivering cutting-edge IT services to the global market through a network of offices and data centers in 11 countries.

The new software institute in Suwon occupies an area of 41,983 square meters within the digital complex of Samsung Electronics. It serves as a state-of-the-art R&D facility for Samsung SDS' engineering outsourcing research organization as well as the main data center for the Samsung Group - Global One Data Center. It will serve as off site backup and support four other Samsung SDS data centers in New Jersey (USA), London (UK), Beijing (China) and Singapore. The research team at the institute will focus on cutting edge R&D for embedded software, Product Lifecycle Management (PLM) and data center automation solutions.



The standby system from Cummins Power Generation includes seven 2000kW generator sets for uninterrupted power 24/7.

Ensuring uninterrupted power 24/7

Because a reliable source of continuous power supply is absolute essential for the R&D research facility and critical for the data center, the software institute relies on Cummins a fully integrated standby power system from Cummins Power Generation.

Working closely with Cummins Power Generation, Samsung SDS installed seven 2000kW generator sets (model C2000D6) powered by the Cummins QSK69G6 diesel engine. Two top-of-the-line MC 200 master controls will synchronize and manage the operations of the seven generator sets. The PowerCommand Digital Master Control MC 200 is a microprocessor-based paralleling system component, designed to directly interface with Cummins PowerCommand Paralleling generator sets.

The compact Digital Master Control comprises forty percent less components than other paralleling systems. In addition to ease of operation, the system allows users to control how the generator works, and monitor the current operating status of the generator, engine and load.

To date, Samsung SDS Software Institute holds the Korean industry's record for having the largest number of generator sets – altogether seven – installed at one single location at the same time.

PowerCommand Digital MasterControl Model 200

The advanced Model 200 PowerCommand® Digital MasterControl will synchronize the operation of the seven generator sets. The MC 200 master controller is a microprocessor-based paralleling system component, designed to directly interface with Cummins Power Generation PowerCommand paralleling generator sets.



Cummins personnel provide commissioning and on-site training to ensure smooth operations.

The Digital MasterControl is designed for use in low or medium voltage isolated bus (not utility paralleled) and infinite bus (utility paralleled) applications. This field-proven control system offers flexibility to meet specific application requirements, ease of operator use, advanced functionality, optimum system reliability and serviceability.

The MasterControl may be either separately installed at a convenient location or integrated into the system power sections when required.

Diesel Generating Set QSK60 Series Engine

The C2000 D6 is one of five models of Cummins Power Generation generator sets that feature the QSK60 series engine – a rugged 4-cycle industrial diesel engine that delivers reliable power, low emissions and fast response to load changes.

It is known for excellent fuel consumption, quick synchronizing and paralleling capabilities, and precise load sharing function. C2000 D6 features the state-of-the-art PCC3201 control.

This Cummins Power Generation commercial generator set is a fully integrated power generation system, providing optimum performance, reliability that compares favourably against the competition, and has versatility for stationary standby, prime power and continuous duty applications.

For more information about integrated standby power systems, contact your local Cummins Power Generation distributor or visit www.cumminspower.com.

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