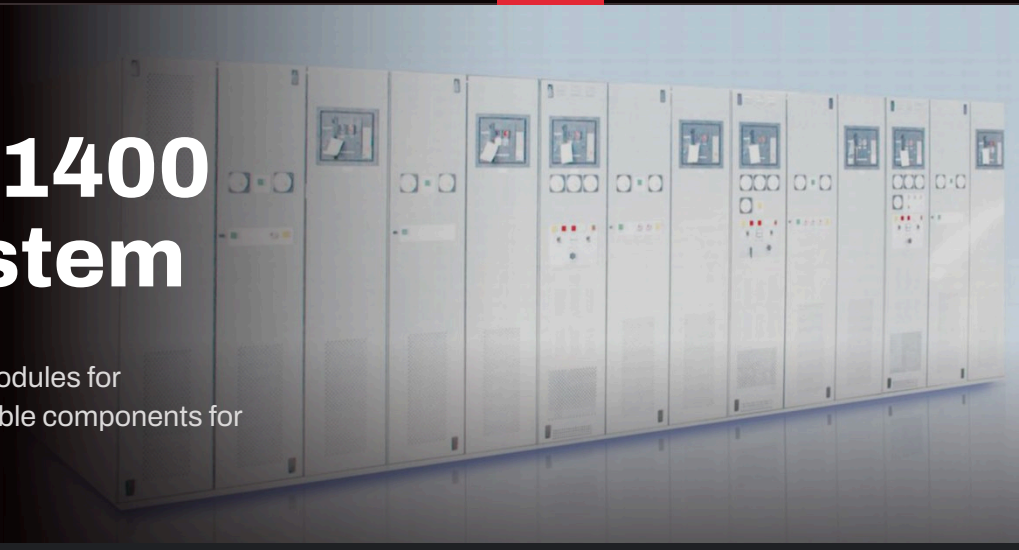
01-02 · GENERATOR & SCR CONTROL

ROSSHILL 1400 Control System



Analog generator and SCR control modules for diesel-electric rigs, with interchangeable components for fast maintenance.

−30 to 50 °C	<1%	<1%	150%
OPERATING TEMPERATURE	ACTIVE VOLTAGE REGULATION	FREQUENCY STABILITY	ROTARY TABLE OVER-CURRENT

GEN ANALOG MANAGEMENT SYSTEM

01 GEN cabinet
Houses the main diesel generator management equipment: easy operation, high reliability, superior performance and easy maintenance.

02 AC control module
Core of diesel generator control, for CAT 3512A, 3512B and other diesel engines. Reactive voltage regulation 3%; AC components are interchangeable for quick maintenance.

03 Generator protection
Over-frequency, under-voltage, overvoltage, reverse power and pulse loss protection.

SCR ANALOG DC CONTROL SYSTEM

04 DC module
Controls the conduction angle of the SCR elements, turning constant-voltage, constant-frequency AC into continuously adjustable DC for stepless speed and torque control of drawworks, mud pumps, rotary table or top drive.

05 DC control module
Outputs strong trigger pulses for fast SCR conduction and balances load between two coaxial motors on one load. Speed regulators are interlocked with their assigned contactors.

AC CONTROL MODULE

DC CONTROL MODULE

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