Shaft Generating System





System Configuration

Shaft Generating System is consists of Shaft Generator Motor (SGM), Synchronous Condenser (S/C) and Frequency Converter Panel (FCP).

> System Output 200kW ~ 4,000kW



MAIN MENU	
Honitor Pane	ol Description
Sequence Monitor	Current Value Monitor
Trend Display	List of Troubles
listory of Operations	Haintenance/Inspection
Simulation	Data Set-up Display

Main menu



Current Value

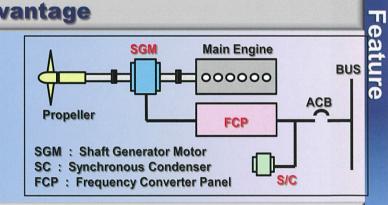


Error Indication

S series - THYRISTER Inverter SGM System

Major Advantage

- F. O. saving
- Maintenance cost saving
- Labor Saving
- M/E boosting (SM mode)
- Electric propulsion (PM mode)



FAT - Factory Acceptance Test



System performance test is carried out by using actual load as FAT at Taiyo Factory before delivery, which can be realized smooth process at shipyard & perfect performance on board ship.



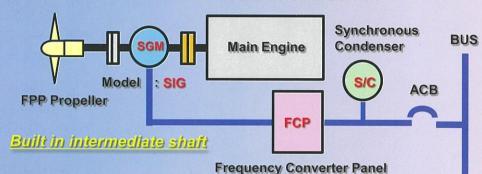
S series — THYRISTER Inverter SGM System

Major Models & System Configuration

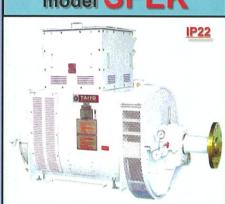


System output: 200 to 4,000kW

Revolution: 110 / 92 / 79 / 69 / 62 / 55min⁻¹

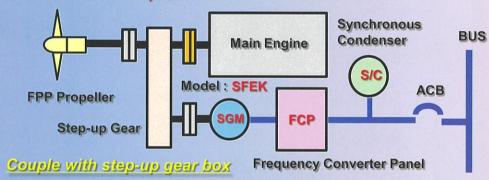


model SFEK



System output : 200 to 2,000kW

Revolution: 1,200min-1



Operation Mode

(1) SG mode: SG (Shaft Generator) system by using M/E energy (basic system).

(2) SM mode: SM (Shaft Motor) system by using ship's surplus energy instead of SG for boosting M/E in case that TG (STG: Steam Turbine Gen., PTG: Power Turbine Gen.) is installed in the system. Thyrister of BUS side in FCP becomes a CONVERTER and Thyrister of SGM side in FCP becomes an INVERTER. This is opposite function compare with SG mode.

(3) PM mode: PM (Propulsion Motor) system by using ship's energy according to disconnect M/E from propeller shaft in case that M/E was damaged or environmental efficiency was required in harbor.

