**Technical Specifications**

1. Control System: Pre-installed Programmable Digital Control by A TOSHIBA
2. Central Process Unit: S17750N 32-bit RISC
3. Memory: Flash-ROM 32Mbyte, SDRAM 8-Mbyte, FRAM 16Mbyte
4. Human Interface: Panel Keyboard, Touch Pad, LCD Display, LCD Display (296 x 144 dots)
5. Voltage Input Rating: ACSR 0.99 Three Phase live is live
6. Current Input Rating: AC 3A & TAC secondary 0mA (second maximum)
7. Digital Input Rating: Active Terminal DC24V and 6mA
8. Digital Output Rating: Dry Contact DC24V 1OA and DC30V 2A (max load)
9. Measurement Accuracy: 1% of full scale & Temperature off 0.5% & HUMUS 10ppm
10. Analogue / Digital convert: 4-bit Analog to Digital converter
11. Analog / Digital convert: 16bit Serial D/A converter
12. Control Source: DC24V Nominal; 18V to 30V continuous, 0V for 10ms, 12V for 100ms
13. Ambient Temperature: 0 deg.C to 50 deg.C for operation
14. Communication Interface: Load sharing & Operation Status
   - Communication Facility: Ethernet for WAN
   - Remote Monitoring: RS232
   - Expansion Unit: MS-MHS (Option)
   - Module (RTU) for Specified of BMS (Option)
15. Synchronizer: Automatic Synchronizer mode and Check Synchronizer mode, with Graphical Synch Mode, Pat. 3995335 & Pat. 3999325
16. Load Sharing: Optimum Load Share between DG sets with optimum number of DG units control command and automatic Frequency control
17. Trend data: 5-minute trend data viewer for all measure points & Limit operation flog for trip condition
18. Event Log: 100 latest data of alarm and status

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**DGICS-MII MARK2**

The Intelligent Communication & Control Unit for Generating Systems

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*MITSUBISHI HEAVY INDUSTRIES ENGINE & TURBOCHARGER, LTD*

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Subject to change without notice.

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*MITSUBISHI HEAVY INDUSTRIES ENGINE & TURBOCHARGER, LTD*

Our Technologies, Your Tomorrow.
DGICS-MII, MHI Group's originally developed digital generator control panel.

Integrated control system design for safe and right control with high reliability conditions by communication system.

The generator panel controls the electric power produced by a generating system, supplying it to various equipment and facilities in a safe and stable form. Generator panels come in many shapes and specifications, including a basic type for simple starting and stopping generating systems and more complicated types equipped with some protective devices for more sophisticated control.

DGICS-MII Outline

DGICS-MII is usually supplied as a compact module without panel box. The module is very small but it has wide, flexible and well-designed specifications and it can be adapted to various type applications. The module can be installed in control panel cubicles.

The Design Concept of DGICS-MII System Always Aims “Safe & Right Operation”.

Those selected specification covers various requirements for electric power supply system for both single and multiple (parallel) operation including standby system and prime power supply continuity in anywheres.

- Operation mode select for automatic/manual
- Engine start/stop control
- Generator breaker open/close operation
- Key Interlock system for operator
- Emergency stop function
- External emergency stop signal circuit for built-in control-gear and/or switchgear
- Emergency stop switch and external stop signal circuit

DGICS-MII System Interface Configuration

The Key Point of the Highly Reliable DG Operation is “Right Time Maintenance” supported by “Daily Condition Check”.

The user and/or distributor get the latest condition data of installed DG sets through the network easily and get the opportunity of maintenance work concerning the equipment. MHI Group will support the user and/or distributor on analyzing the data if necessary.

Communication Possibility

The engine & generator instruments cover S phase/2wire and S phase/4wire electrical power distribution system.

One Point Note

Synchronizing Control Panel Operation.

High risk factors for the equipment exist at Synchronizing Stage when (breaker closing timing, MHI Group reduce the such risk with patented Logic and hardware, Patent No. 5960230 and 3860038).