



# NIPPON KAIJI KYOKAI

## *Certificate*

*of*

### ***TYPE APPROVAL***

Certificate No. A-288-2

MANUFACTURER : KAWAI ELECTRONIC INNOVATION System Co., LTD

ARTICLE : KEI Generator Control Unit

TYPE NO. : KGCU

TYPE TEST NO. 92 A 103

PARTICULARS : Power Supply DC 24 V

EQUIPMENT : Shown on the attached sheet.

DOCUMENTATION: KEI-KGCUD11-101, KEI-KGCUD01-101A, BTB-D01/03A-701A  
BTB-SYC/01A-701, BTB-SYC/02A-701

TEST ITEMS : Shown on the attached sheet

THIS IS TO CERTIFY that the above mentioned type of article has been approved by the NIPPON KAIJI KYOKAI in accordance with the requirements for the environmental tests specified in the Society's Rules.

This certificate will remain in force until the 5th day of February 2010.

Issued at Tokyo on the 11th day of March 2004.

T. Okayama  
General Manager,  
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

# NIPPON KAIJI KYOKAI

Attached sheet-1/2

Certificate No. A-288-2

## Equipment

Electrical Power Management System (KGCU) : KGCUD11, KGCUD01

Module for KGCU : BTB-PW1, BTB-834/12  
BTB-DI, BTB-D01/03  
BTB-AVI, BTB-SYC/01  
BTB-SYC/02, BTB-SI0

Rack For KGCU : KRP-014

Attached sheet - 2/2

Certificate No. A-288-2

Test items: Applied test items are marked with X.

ENVIRONMENTAL TESTS	Mark
External examination	X
Operation test and performance test	X
Electric power supply failure test	X
Electric power supply fluctuation test	X
Power supply fluctuation test	--
Insulation resistance test	X
High voltage test	X
Pressure test	--
Dry heat test (Temperature 70°C × 2.0 hours)	X
Damp heat test (Temperature 55°C, Humidity 95%, 16 hours, 2 cycles)	X
Vibration test (Acceleration ±0.7G × 2.0 hours)	X
Inclination test	X
Cold test	--
Salt mist test	--
Electrostatic discharge immunity test	X
Radiated radio frequency immunity test	X
Conducted low frequency immunity test	X
Conducted high frequency immunity test	X
Burst/Fast transient immunity test	X
Surge immunity test	X
Radiated emission test	X
Conducted emission test	X