



Lloyd's  
Register

## Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

<b>PRODUCER</b>	KEI System Co., Ltd.
<b>PLACE OF PRODUCTION</b>	1-5, 1-chome, Ikunonishi, Ikuno-ku, Osaka, 544-0024, Japan
<b>DESCRIPTION</b>	Computer System
<b>TYPE</b>	KEI-64S Series Comprising Name Type Host computer KEI-64S-A, KEI-64S-D Power supply PLA30F-12, ESS50-12, STMGFS302412, SVB12SC24 ILS module ILS-DI, ILS-DV, ILS-DO, ILS-AII, ILS-AVI, ILS-PT, ILS-CA, ILS-VR4, ILS-BIO, ILS-BVO, ILS-REP ILS interface module ILS-ETH Power supply (ES series) ESS15-24, ESS30-24, ESS50-24, ESS75-24, ESS100-24, ESS150-24 Power supply (SV series) SVB24SC24 Noise filter RSAN-2006, RSAN-2010, RSAN-2016
<b>APPLICATION</b>	Marine and offshore applications for use in environmental categories, ENV2 for Host computer & Power supply and ENV3 for ILS module, ILS interface module, Power supply (ES series & SV series) & Noise filter in the "Bridge and Deck Zone" as defined in LR Type Approval System Test Specification No. 1-2015 where the Test Specification is satisfactory for the intended operation.
<b>Certificate No.</b>	17/10009
<b>Issue Date</b>	08 June 2017
<b>Expiry Date</b>	07 June 2022
<b>Sheet</b>	1 of 2



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Yokohama Technical Support Office  
Lloyd's Register Group Limited

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<b>ADDITIONAL TEST</b>	Dry heat test at 70°C, 16 hours for Host computer and Power supply
<b>DESIGN CODE</b>	Manufacturer's specification: Drawing NO. LR-KEI-64S-502 & LR-KEI-64S-504
<b>RATINGS</b>	Input voltage KEI-64S-A : AC 100V – AC 220V KEI-64S-D : DC +24V
<b>OTHER CONDITIONS</b>	a) The certificate attests to the hardware's suitability for the environmental categories stated. b) Suitability of the software and system configuration is subject to a separate plan appraisal according to the Lloyd's Register Rules and Regulations when placed on Lloyd's Register classed vessels.

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Group Limited of any modification or changes to the equipment in order to obtain a valid certificate."*

*The attached Design Appraisal Document No. 17/10009 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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