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Certificate No: LR2004574TA Issue Date: 25/06/2020 Expiry Date: 24/06/2025

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.

Manufacturer KEI System Co., Ltd.

Address 1-5, 1-chome, Ikunonishi, Ikuno-ku, Osaka, 544-0024, Japan

Place of Production KEI System Co., Ltd.

1-5, 1-chome, Ikunonishi, Ikuno-ku, Osaka, 544-0024, Japan

Type Power Distribution Systems & Power Supplies

Description Power supply for computer system

Trade Name Power supply: RDS30-24-24, RDS60-24-24, RDS100-24-24, RDS180-24-24

Surge protective device: RSP-DC48Q-4

Application Marine and offshore applications for use in environmental categories, ENV2

and ENV3 in the "Bridge and Deck Zone" as defined in LR Type Approval System Test Specification No. 1-2019 where the Test Specification is

satisfactory for the intended operation.

Toshihiro Shigeno

Innovation / Type Approval Coordinator and Senior Surveyor to Lloyd's Register Group Ltd A member of the Lloyd's Register Group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Ratings Power supply: RDS30-24-24, RDS60-24-24, RDS100-24-24, RDS180-24-24

Rated input voltage: DC+24V

Operating voltage range: DC+18V - DC+31.2V

Rated output voltage: DC+24V

Maximum power: RDS30-24-24: 30W RDS60-24-24: 60W RDS100-24-24: 100W RDS180-24-24: 180W

Surge protective device: RSP-DC48Q-4

Rated input voltage: DC+24V

Operating voltage range: DC+18V - DC+31.2V

Additional Tests IACS Unified Requirement E10 (Rev.7)

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 Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR2004574TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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