



CERTIFICATE NUMBER

DATE

14-YO1251188-PDA

14 October 2014

ABS TECHNICAL OFFICE

Yokohama Engineering Services

# CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of  
**IDEC IZUMI TAIWAN CORPORATION - KAOHSIUNG CITY**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

PRODUCT: **Power Supply Unit**

MODEL: **PS6R Series**

This Product Design Assessment (PDA) Certificate 14-YO1251188-PDA, dated 14/Oct/2014 remains valid until 14/Oct/2019 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

  
Motohiro Tamura  
Engineer

**IDEC IZUMI TAIWAN CORPORATION**

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**Tier: 2****Product: Power Supply Unit****Model: PS6R Series****Intended Service:**

Switching Power Supplies installed on Marine, Offshore Vessels and MODU.

**Description:**

Power Supply, PS6R Series

PS6R Series consist of the Power Supply Unit, DC-DC Converter Unit and Expansion Terminal Unit.

Application Models are below.

1) Power Supply Unit

PS6R-F24, PS6R-G24, PS6R-J24

2) DC-DC Converter Unit

PS9Z-6RM1, PS9Z-6RM2, PS9Z-6RM3, PS9Z-6RM4, PS9Z-6RM5, PS9Z-6RM6

3) Expansion Terminal Unit

PS9Z-6RS1

**Ratings:**

1)Power Supply Unit

Model Number Input Voltage/Output Voltage/Output Current/ Ambient Temperature/Frequency

PS6R-F24 AC100V - AC240V/DC24V/5A/0 to +60/ 50Hz/60Hz

PS6R-G24 AC100V - AC240V/DC24V/10A/0 to +60/ 50Hz/60Hz

PS6R-J24 AC100V - AC240V/DC24V/20A/0 to +60/ 50Hz/60Hz

2)DC-DC Converter Unit

Model Number Input Voltage/Input Current/Output Voltage/Output Current/Ambient Temperature/ Maximum Output Power

PS9Z-6RM1 DC24V/DC0.5A/DC5V/DC2A/0 to +60/10W

PS9Z-6RM2 DC24V/DC0.55A/DC12V/DC1A/0 to +60/12W

PS9Z-6RM3 DC24V/DC0.52A/DC5V/DC1A and DC-5V/DC1A/0 to +60/10W (5W+5W)

PS9Z-6RM4 DC24V/DC0.58A/DC15V/DC0.4A and DC-15V/DC0.4A/0 to +60/12W (6W+6W)

PS9Z-6RM5 DC24V/DC0.53A/DC5V/DC1A and DC12V/DC0.5A/0 to +60/11W (5W+6W)

PS9Z-6RM6 DC24V/DC0.58A/DC12V/DC0.5A and DC-12V/DC0.5A/0 to +60/12W (6W+6W)

3)Expansion Terminal Unit

Model Number Output Voltage/Output Current/Ambient Temperature

PS9Z-6RS1 DC24V/DC10A/0 to +60

**Service Restrictions:**

Unit certification is not required for this product.

If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be defined. Detail of each particular application including wiring diagram, location/installation of sensors are to be specifically approved by ABS.

**Comments:**

(1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

(2) Unless specially directed by Administration, this approval is not to be constructed as a substitute for flag Administration's approval.

(3) If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be defined.

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**Tier: 2**

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(4) This certificate may not be used for EU and US flagged vessels (if MED and/or USCG have their own specific requirements).

**Notes / Drawings / Documentation:**

- 1) ABS Surveyor Report No. KO2662799 dated 29 August 2014.
  - 2) IDEC Corporation Power Supply PS6R Series Test Report No. NSH-14006-19 dated 9 September 2014.
- Referred Drawings are as below,
- NSH-14006-09 Rev. 00 Product catalog
  - NSH-14006-10 Rev. 00 Product specifications
  - NSH-14006-11 Rev. 00 Instruction manual
  - NSH-14006-14 Rev. 00 Performance criteria

**Term of Validity:**

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**STANDARDS**

**ABS Rules:**

- 2014 Steel Vessel Rules 1-1-4/7.7, 1-1-Appendix 3 and 4, and 4-9-8/13
- 2014 Steel Vessel (Under 90M) Rules 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-7-2/17 and 4-7-4/3
- 2014 Steel Offshore Support Vessel Rules 1-1-4/7.7, 1-1-Appendix 3 and 4, and 4-9-8/13
- 2014 High Speed Craft Rules 1-1-4/11.9, 1-1-Appendix 2 and 3, and 4-7-9/15
- 2014 Mobile Offshore Drilling Units Rules 1-1-4/9.7, 1-1-Appendix 2 and 3
- 2014 Facilities on Offshore Installations 1-1-4/9.7, 1-1-Appendix 2 and 3

**National:**

NA

**International:**

NA

**Government Authority:**

NA

**EUMED:**

NA

**Others:**

NA