



Confirmation of Product Type Approval

Company Name: IDEC IZUMI TAIWAN CORPORATION

Address: NO. 87 SWI KUAN ROAD, CHU HOU VILLAGE, REN WU DISTRICT 81465 Taiwan Region

Product: Power Supply Unit

Model(s): PS6R Series

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	19-YO1937788-PDA	15-OCT-2019	14-OCT-2024
Manufacturing Assessment (MA)	20-KS4189008	11-MAR-2020	05-AUG-2024
Product Quality Assurance (PQA)	NA	NA	NA

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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.

(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 and 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

3) NSH-19026-08 Type test report dated 5 December 2019, issued by JQA.

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 14/Oct/2024 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

- 2019 Steel Vessel Rules 1-1-4/7.7, 1-1-A3 & A4 and 4-9-8/13,
- 2019 Marine Vessel Rules 1-1-4/7.7, 1-1-A3 & A4 and 4-9-9/13,
- 2019 Mobile Offshore Drilling Units Rules 1-1-4/9.7, 1-1-A2 & A3,
- 2019 Mobile Offshore Units 1-1-4/9.7, 1-1-A2 & A3,
- 2019 Steel Vessels (Under 90M) in Length 1-1-4/7.7, 1-1-A3 & A4, 4-7-2/17 and 4-7-4/3,
- 2019 Offshore Support Vessels 1-1-4/7.7, 1-1-A3 & A4 and 4-9-8/13,
- 2019 High-Speed Craft 1-1-4/11.9, 1-1-A2 & A3 and 4-7-9/15,

International Standards

NA

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

IACS UR E10 (Rev.7 Oct 2018)



A handwritten signature in black ink, appearing to read 'James J. White'.

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.