



Product Service

# CERTIFICATE

No. B 12 12 13332 154

Holder of Certificate: **IDEC CORPORATION**

1-7-31 Nishimiyahara, Yodogawa-Ku  
Osaka  
532-8550 JAPAN

Production Facility(ies):

24200

Certification Mark:



Product:

Switching power supply unit  
Switching Power Supply

Model(s):

PS6R-J24, PS9Z-6RM1, PS9Z-6RM2  
PS9Z-6RM5, PS9Z-6RS1

Parameters:

Ratings:

PS6R-J24 Input: 100 – 240Vac, 50/60Hz, 5.5 – 2.2A

Output: 24Vdc, 20A

PS9Z-6RM1

Input: 24Vdc, 0.5A

Output: 5Vdc, 2A

PS9Z-6RM2

Input: 24Vdc, 0.55A

Output: 12Vdc, 1A

PS9Z-6RM5

Input: 24Vdc, 0.53A

Output: 5Vdc, 1A and 12Vdc, 0.5A

PS9Z-6RS1

Output: 24Vdc, 10A

Protection class: I

Overvoltage category: II

Ambient temperature: 60°C max. for vertical position only

Remark: When installing/inserting the equipment all requirements of the mentioned test standard must be fulfilled.

Tested according to: EN 60950-1/A12:2011  
EN 50178:1997

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 73538998

Date, 2012-12-03

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( Shigehisa Ishikawa )



**Technical Report No. 73538998**

**Rev. 0**

**Dated 2012-12-03**

Client: IDEC CORPORATION  
7-31 Nishimiyahara, 1-chome, Yokogawa-ku, Osaka 532-8550,  
Japan  
Contact person :Mr. Ichiro Shiraishi

Manufacturing place: IDEC Izumi Taiwan Corporation (#24200)  
No.87 Swi Kuan Rd., Chu Hou Village, Jen Wu Country, Kaohsiung  
Hsien 81408 Taiwan

Test subject: Product: Switching Power Supply with or without DC-DC Converter  
and Expansion Terminal  
Model: PS6R-J24, PS9Z-6RM1, PS9Z-6RM2, PS9Z-6RM5,  
PS9Z-6RS1

Test specification: EN 60950-1/A12:2011  
EN 50178:1997

Purpose of examination: TÜV Mark approval

Test result: Positive

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## **1 Description of the test subject**

### **1.1 Function**

Equipment is a built in type, Switching Power Supply unit with or without DC-DC converter and Expansion Terminal.

### **1.2 Technical Data**

Ratings:

PS6R-J24 Input: 100 – 240Vac, 50/60Hz, 5.5 – 2.2A

Output: 24Vdc, 20A

PS9Z-6RM1 Input: 24Vdc, 0.5A

Output: 5Vdc, 2A

PS9Z-6RM2 Input: 24Vdc, 0.55A

Output: 12Vdc, 1A

PS9Z-6RM5 Input: 24Vdc, 0.53A

Output: 5Vdc, 1A and 12Vdc, 0.5A

PS9Z-6RS1 Output: 24Vdc, 10A

Protection class: I

Overvoltage category: II

Ambient temperature: 60°C max. for vertical position only

## **2. Order**

### **2.1 Date of Purchase Order, Customer's Reference**

2012-09-03

Customer's Reference No.: 12-306-104

### **2.2 Receipt of Test Sample, Location**

2012-09-11, TÜV SÜD Ohtama, Ltd., Tokyo Laboratory

2-8-20, Kurigi, Asao-ku, Kawasaki, Kanagawa 215-0033, Japan N/A

### **2.3 Date of Testing**

2012-09-11 to 2012-11-26

### **2.4 Location of Testing**

Same as 2.2.

### **2.5 Points of Non-compliance or Exceptions of the Test Procedure**

None

### 3. Test Results

#### 3.1 Positive Test Results

Electrical safety:

EN 60950-1/A12:2011 Test Report Reference No.: 73538998

EN 50178:1997 Test Report Reference No.: 73538999

#### 3.2 Points of non-compliance according to the test specification

N/A

### 4. Remark

#### 4.1 Remarks to Factory

Factory Inspection shall be conducted every 12 months.

Routine tests to be carried out 100% of the production.

#### Protective earthing

The resistance of the connection between the protective earthing terminal or earthing contact and parts required to be earthed shall not exceed 0.1  $\Omega$ .

Compliance is checked by the following test:

The test current is 25A. It can be either a.c. or d.c.

The resistance between the protective earthing terminal or earthing contact and the part required to be earthed is measured. The resistance of the protective earthing conductor of the power supply cord is not included in the resistance measurement.

Care is taken that the contact resistance between the tip of the measuring probe and the metal part under test does not influence the test result.

#### Electric strength

The electric strength of the insulating materials used within the equipment shall be adequate.

Compliance is checked by the following test:

The insulation is subjected either to a voltage of substantially sine-wave form having a frequency of 50 Hz or 60 Hz, or to a D.C. VOLTAGE equal to the peak voltage of the prescribed a.c. test voltage. Test voltages are as follows.

1.5kVac between mains supply and chassis (PE).

The voltage applied to the insulation on test is gradually raised from zero to the prescribed voltage and held at that value for no less than 1 second. There shall be no insulation breakdown during the test.

The assembly of the product has to comply with the documentation (CDF). Before the implementation of safety relevant modifications to the product into the ongoing production the product must be assessed for acceptance. The results must be implemented to the documentation and if necessary the certificate must be updated.

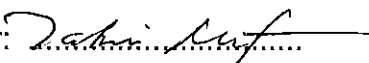
**5. Documentation**

- CDF
- Test Report (Ref. Nos. 73538998 and 73538999)
- Photo documentation ((Ref. No. 73538998)

**6. Summary**

N/A

TÜV SÜD Japan Ltd.  
Subsidiary of TÜV SÜD PRODUCT SERVICE GMBH

Engineer: 

Takeshi Morofuji

Technical Report checked: 

Tsutomu Nakamura