

IP67 WEARABLE ENCLOSURE - SMW series IP67 TEST CERTIFICATE

Test certification: Remark

1. This certificate is the IP67 test certificate for model SMW-50□.
Since the largest size enclosure, SMW-50□ has passed the IP67 test, we
consider that the test results shall apply to all other models in the SMW series.

2. The waterproof performance will be lost by drilling/milling holes or cutouts for buttons or switches on the enclosures.

Please note that this certificate is only applicable to standard enclosures as-is without any customization, and does not apply to enclosures which have been drilled/milled, or attached any connecter/switch or other component.

3. This certificate should be shown, used, or referenced to, in its entirety, and is not to be done so in a partial format.

If you wish to upload this certificate on your website, please contact our R&D department stating the reasons for intended usage.

(Unauthorized uploading or partial reproduction, such as on a website, or in other media such as print, is strictly prohibited.)

November 6, 2025

TAKACHI ELECTRONICS ENCLOSURE CO., LTD.

R&D department

E-mail: sales@takachi-el.co.jp

TEST CERTIFICATE

We, hereby, verify that the under mentioned electrical product submitted to test at our laboratory dated September 29,2025 (Reception No. D25Y0244) is in compliance with the requirement of the test standard to be applied, as shown in the attached TEST REPORT (Ref. No. 25TR-Y0618)

Applicant (name & address):	TAKACHI ELECTRONICS ENCLOSURE CO., LTD
	3-21-16, Higashi-ryoke, Kawaguchi-shi, Saitama JAPAN(332-0003)
Name of product:	WEARABLE ENCLOSURE
Model/Type Ref.:	SMW-50□
Rating and principal characteristics:	_
Date of issue:	November 6,2025
	Masaki Kato Director, Yokohama Laboratories Japan Electrical Safety & Environment

Technology Laboratories (JET)

TEST REPORT

Report reference No.

25TR-Y0618

Date & No. of reception September 29, 2025 (D25Y0244)

Applicant (Name&address)

TAKACHI ELECTRONICS ENCLOSURE CO., LTD

3-21-16, Higashi-ryoke, Kawaguchi-shi, Saitama JAPAN (332-0003)

Name of product WEARABLE ENCLOSURE

Model/type Ref. SMW-50□

Rating and principal characteristics

Test Standard

JISC0920:2003

Combination of test conditions for; the first characteristic numeral: 6 the second characteristic numeral: 7

Test Result

Pass

Date of issue

November 6, 2025

Masaki Kato

Director, Yokohama Laboratory

M, Kerr

Japan Electrical Safety & Environment

Technology Laboratories (JET)

Report reference No. 25TR-Y0618

Testing laboratory

Japan Electrical Safety & Environment Technology Laboratories JET Tokyo Laboratory 5-14-12 Yoyogi, Shibuya-ku, Tokyo, 151-8545, Japan JET Yokohama Laboratory 1-12-30 Motomiya, Tsurumi-ku, Yokohama, Kanagawa, 230-0004, Japan JET Kansai Laboratory 4-1 Koyo-cho Nishi, Higashinada-ku, Kobe, Hyogo, 658-0033, Japan JET Power Technology Testing Laboratory 1-12-28 Motomiya, Tsurumi-ku, Yokohama, Kanagawa, 230-0004, Japan Other Location (Address: September 29, 2025

Date of Sample received

Date of test September 30, 2025 until November 4, 2025

Tested by Akihisa Yorozu

Kazuo Hasegawa Approved by

Test case verdicts

N(A): Test case does not apply to the test object.

P(ass): Test item does meet the requirement.

F(ail): Test item does not meet the requirement.

Test item not applied. (according to request from the applicant)

General remarks

- The test results presented in this report relate only to the object tested.
- This report shall not be reproduced except in full without the written approval of JET.

JIS C 0920 (2003)			
Clause	Requirement – Test	Result - Remark	Verdict

11	General requirements for the tests		P
11.1	Atmospheric conditions for water or dust tests:		-
	Temperature range: 15~35 ℃	Water temperature during waterproof test 21 ℃ Water temperature during dustproof test 19 ℃	-
	Relative humidity: 25~75 %	Relative humidity during waterproof test 44 % Relative humidity during dustproof test 43 %	-0
	Air pressure: 86~106 kPa	Air pressure during waterproof test 101.5 kPa Air pressure during dustproof test 102.5 kPa	-
11.2	Test samples for each test		-
	- in a clean and new condition	New condition	-
	- the complete equipment	Complete equipment	-
	- representative parts		-
	- smaller equipment having the same full-scale design		_
	Number of samples to be tested	Waterproof test: 1 Dustproof test: 1	-
	Conditions for mounting, assembling and positioning of samples	The test sample for the dustproof test is attached to the test box prepared by the applicant.	-
	Pre-conditioning	No pre-conditioning	-
	Whether to be tested energized or not	Not energized	-
	Whether to be tested with its parts in motion or not	Not in motion	-
11.3	Application of test requirements and interpretation of test results	No drain-holes or ventilation openings	Р
	Standard applied for the general requirements for tests and the acceptance conditions for equipment containing drain-holes or ventilation openings		Ν
	Standard applied for the interpretation of test results	This standard	Р
11.4	Combination of test conditions for the first characteristic numeral: Table V applied	The first characteristic numeral: 6	Р
11.5	Empty enclosures		Р
	Whether the enclosure to be tested is with or without equipment inside	The entire inside of the test sample	Р

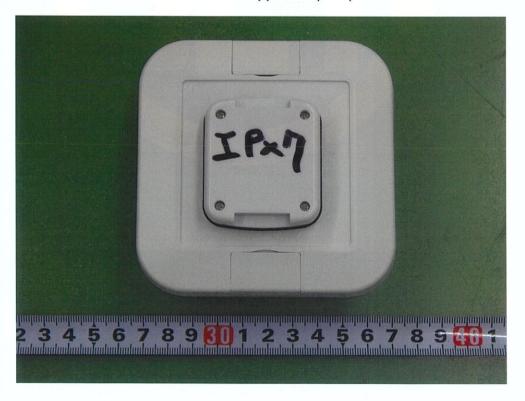
	JIS C 0920 (2003)		
Clause	Requirement – Test	Result - Remark	Verdict
12	Tests for protection against access to hazardous parts indicated by the first characteristic numeral		N
13	Tests for protection against solid foreign objects i characteristic numeral	ndicated by the first	Р
13.1	Test means		Р
	The test means and the main test conditions applied as in Table VII	The first characteristic numeral: 6 Dust chamber	Р
13.2	Test conditions for first characteristic numerals 1, 2, 3	, 4	Ν
13.3	Acceptance conditions for first characteristic numerals	s 1, 2, 3, 4	Ν
13.4	Dust test for characteristic numerals 5 and 6		Р
	Use of dust chamber in Fig. 2	Fig. 2 (Dust chamber)	Р
13.4A	Category 1 enclosures		Р
	- 2 hours (extraction rate: 40~60 volumes per hour)		Ν
	- until 80 volumes have been through or continued for a period of 8 hours	Test time: 8 hour	Р
13.4B	Category 2 enclosures		Ν
13.4C	Category 1 enclosures and Category 2 enclosures		Р
	If it is impracticable to test the complete enclosure in the test chamber, one of the following procedures shall be applied:	,	Ν
13.5	Special conditions for first characteristic numeral 5		Ν
13.6	Special conditions for first characteristic numeral 6		Р
13.6.1	Test conditions		Р
	Category 1 applied	Refer to 13.4	Р
13.6.2	Acceptance conditions		Р
	No deposit of dust is observable inside the enclosure at the end of the test	No talc powder entered the test box in which the test sample was attached.	Р
14	Tests for protection against water indicated by the second characteristic numeral		Р
14.1	Test means		Р
	The test means and the main test conditions applied as in Table VIII	The second characteristic numeral: 7	Р
14.2	Test conditions		Р

	JIS C 0920 (2003)		
Clause	Requirement – Test	Result - Remark	Verdict
	Tests performed according to sub-cl. 14.2, the test method and main test which was given in Table VIII	Test conditions are given in Table 8 (Refer to sub-clause 14.2.7)	Р
	Difference between water temperature and temperature of the specimen (the maximum 5 K)		P
	Calculation of the enclosure surface area	<1.0 m ²	Р
14.2.1	Test for second characteristic numeral 1 with the drip	box	Ν
14.2.2	Test for second characteristic numeral 2 with drip box	(Ν
14.2.3	Test for second characteristic numeral 3 with oscillating	ng tube or spray nozzle	Ν
14.2.4	4.2.4 Test for second characteristic numeral 4 with oscillating tube or spray nozzle		Ν
14.2.5 Test for second characteristic numeral 5 with 6.3 mm nozzle		Ν	
14.2.6	2.6 Test for second characteristic numeral 6 with 12.5 mm nozzle		Ν
14.2.7	Test for second characteristic numeral 7: temporary immersion between 0.15 m and 1 m		Р
	a) The lowest point is located 1000 mm from the surface of the water	1000 mm from the surface of the water enclosure with height < 850 mm	P
	b) The highest point is 150 mm to the surface of the water (enclosure with height ≧ 850 mm)		Ν
	c) The duration of the test: 30 min	30 min.	P
	d) Difference between the water temp. and the temp. of the equipment: \leqq 5 K	Sample temperature:21 ℃ Water temperature: 19 ℃ Difference: 2 K	Ρ
14.2.8	Test for second characteristic numeral 8: continuous immersion subject to agreement		Ν
14.3 Acceptance conditions			Р
	Acceptance conditions applied as specified in :		
	- sub-clause 14.3	Acceptance condition of sub-clause 14.3	Р
	- the relevant product standard		Ν
	Whether or not any water has entered	No water entered the test sample	Р
	If any water has entered, it is proved by inspection that any water which enters:		
15	Tests for protection against access to hazardous additional letter	parts indicated by the	N

Photo of the appliance (IP6X)

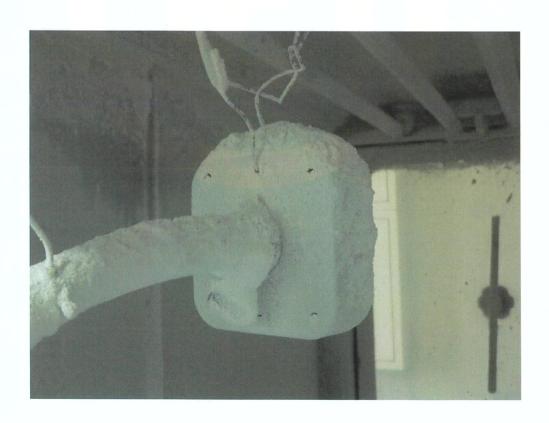


Photo of the appliance (IPX7)

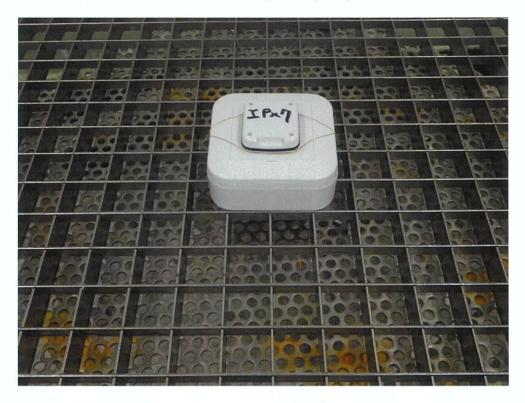


Test situation photos (IP6X)





Test situation photos (IPX7)





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