

한국전기안전공사 안전인증센터

KESCO Safety Test Center Tel: 82-31-240-4500 Fax: 82-31-240-4590

시 험 성 적 서 TEST REPORT

성적서 번호: STC-A14-008 (Report No.)





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Customer

- 기 관 명 : M3 MOBILE
 - Name
- 주 소: M3 Bldg., 735-45, Yeoksam-Dong, Gangnam-Gu, Seoul, Korea Address
- 의뢰일자 : 2014. 02. 05. Date of Receipt
- 2. 시험성적서 용도 : Reference Use of Test Report
- 3. 시험대상 품목 : M3 BLACK Product
 - 모델명 : M3 BLACK Model
- 제조 번호: Not applicable Serial No.
- **4.** 시험 기간 : 2014. 02. 17. ~ 2014. 03. 04. Test Period
- 5. 시험 방법/항목: IEC 60529:2001 / IP67 Test Method/Item
- 6. 시험 환경

Test Environment

- 온도 : (18 ± 1) ℃ Temperature
- O 상대 습도: (38 ± 5) % R.H. Relative Humidity
- 7. 시험 결과 : Pass Test Result

확 인 Conformation 작성자 Tested by 성명 김 보 람 Name B. R. Kim (서명) Signature

승인자 Approved by 성명 한 동 균 Name D. K. Han

직책: 기술책임자 Position (사용)

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- □ 위 성적서는 국제시험기관인정협력체(International Laboratory Accreditation Cooperation) 상호인정협정(Mutual Recognition Arrangement)에 서명한 한국인정기구(KOLAS)로부터 공인받은 분야에 대한 시험결과입니다.
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2014. 03. 18. 인권하다 한국인정기구 인정 한국전기안전공사 안전인증젠변경 The head of Korea Electrical Safety Corporation Safe Inc. Original

□ 440-819 경기도 수원시 장안구 정조로 933번길 21(영화동) 21, Jeongjo-Ro, 933beon-Gil, Jangan-Gu, Suwon-City, Gyeonggi-Do, 440-819, Korea

Test Report

Report Page



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No.:	2/6	Model:	M3 BLACK	

1. Test Environment

 \circ Temperature: (18 \pm 1) $^{\circ}$ C, Relative Humidity: (38 \pm 5) % R.H.

· Location: Dust Chamber IP Test Lab, IP Water Test Lab.

2. List of Used Equipment

Equipment	Description	Manufacturer	Model	Serial No.	Calibration Valid Until
A-26-03	Hygro/Thermograph	SATO	NS2-Q	1505676	2014. 10. 09.
A-27-01	Digital Thermometer	FLUKE	52	6793091	2015. 01. 10.
A-74-01	Dust Chamber	PTL	P14	5040172	2014. 08. 13.
B-01-01	Stop Watch	Time Art	PC-80A	TPST002	2014. 10. 01.
B-03-03	Tape Measure	HIBO	-	-	2014. 05. 02.

3. Test Date

Date of receipt of test item	2014. 02.	05.
Test Period	2014. 02.	17. ~ 2014. 03. 04.

4. Test Condition: IP67

5. Test Results: Pass

1) Dust Test		
Test results for dust pr	otection (first characteristic num	eral 6)
Description of test:		
1. Degree of protectio	n.	
No ingress of dust		
2. Category for enclos	sure;	
□ Category 1	Category 2	Category 1 and Category 2
3. Testing method:		
	ısed shall be able to pass through a ich is 50 μm and the nominal width l	
- The amount of talcum powder was 2 kg per cubic meter of the chamber volume.		
- The amount of talcun	n powder to be used is 2 kg per cubic	metre of the test chamber volume.
Category 1		
☐ If an extraction rate	e of 40 to 60 volumes per hour is ob	tained the duration of the test is 2 h
☑ If, with a maximum	depression of 2 kPa (20 mbar), the	extraction rate is less than 40

Test Report

IEC 60529:2001



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volumes per hour, the test is continued until 80 volumes have been drawn through, or a period of 8 h has elapsed.

4. Test condition

The enclosure shall be deemed category 1 whether reductions in pressure below the atmospheric pressure are present or not.

5. Acceptance conditions

The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.

6. Test result: Pass

2) Water Test

Test results for water protection (second characteristic numeral 7)

Description of test

1. Degree of protection.

Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water under standardized conditions of pressure and time

2. Testing method:

- Enclosure height: 38 mm
- A) The lowest point of enclosures with a height less than 850 mm is located 1 000 mm below the surface of the water.
- B) The highest point of enclosures with a height equal to or greater than 850 mm is located 150 mm below the surface of the water.

Duration of the test is 30 min

The water temperature does not differ from that of the equipment by more than 5 K.

3. Acceptance conditions:

Dielectric strength test: N/A

It shall not;

- be sufficient to interfere with the correct operation of the equipment or impair safety;
- deposit on insulation parts where it could lead to tracking along the creepage distances;
- reach live parts or windings not designed to operate when wet;
- accumulate near the cable end or enter the cable if any.

4. Test result: Pass

Photo Documentation



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[Specimen]

1. Test Condition

- 1) Dust test for first characteristic numerals 6
 - o Depression: 2 kPa
 - o Duration of time: 8 h
- 2) Water test for second characteristic numeral 7
 - o Duration of time: 30 min

2. Applicant & Model

o M3 MOBILE / M3 BLACK

Photo Documentation



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3. Test Figure

1) Dust Test



[Before Test]



[After Test]

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2) Water Test



[During Test]