

Address :3611, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do , South Korea (10048)

### Hot Issue

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Address :3611, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do , South Korea (10048) Company Id No : 110111-243147 Tax & VAT Id No : 105-86-35114 Tel : (+82)2-6351-9001~5 / Fax : (+82)2-6351-9007 Home page : www.icrqa.com

# IAS certification body registration information



#### IAS Accreditation

**On March 03, 2023**, ICR was officially registered as a quality management system, environmental management system, safety and health management system, and medical device quality management system certification body from IAS, an accreditation body in the United States.



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# IAS certification body registration information



#### What is IAS?

The International Accreditation Service (IAS) is a traditional American accreditation corporation that has provided testing and system accreditation services since 1975. It is a signatory of the MRA and is a world-leading international accreditation body that maintains the status of an MLA signatory of the International Accreditation Forum (IAF).

#### IAS certificate of accreditation

You can check the IAS certificate on the ICR website  $\rightarrow$  About ICR  $\rightarrow$  Accreditation  $\rightarrow$  IAS, and you can check the IAF Code (Certification Sectors) granted by IAS.

#### **Expected effects of IAS accreditation**

ICR has been able to provide safety and health management system and medical device quality management system certification services as a US accreditation body through the acquisition of IAS accreditation. We expect to be able to meet the needs of customers who want to be certified as an American accreditation body.



# IAS certification body registration information

In addition, it is expected that future audits will be improved more efficiently by integrating the certifications received from different accreditation agencies for each standard into one accreditation body.

#### Objective of the ICR System Certification Division

ICR's objective is to satisfy the needs of various customers. In the past, safety and health management systems and medical device quality management systems have been provided with certification services only by Korean accreditation body. By acquiring IAS accreditation, we expect to be able to satisfy the needs of customers who wanted to be provided with certification services by an accreditation body in the US.

In this way, ICR will become a certification body that always strives to satisfy needs.

**T** Inquiries

System Certification Div. / Lee, Jae-Min T. 070-5083-2612 / lee2750@icrqa.com

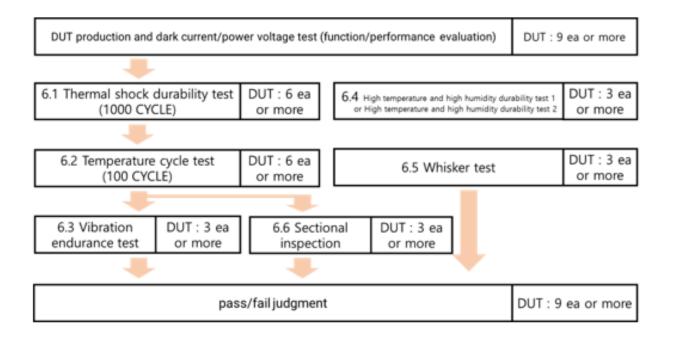
### Revision of Hyundai/Kia Motors lead-free solder test standards



This is a standard that indicates test methods and requirements for securing reliability in the vehicle environment for alternative bonding materials for lead (Sn/Pb) used for mounting electrical components and bonding wire terminals.

#### **ES90000-04 Standard Tests Flow (Rev.8)**

ES90000-04 Standard Tests Flow



### Revision of Hyundai/Kia Motors lead-free solder test standards



#### ES90000-04 ES90000-04 standard revision contents (8th)

- In Rev.7, analysis was conducted through cross section inspection after vibration durability test, but in Rev.8, analysis was conducted through cross section inspection after temperature cycle test.
- The number of products for vibration durability test is reduced from 6 ea to 3 ea, reducing test time and test cost.
- 3) Added picture of FPC whisker measurement area during whisker inspection

#### ☎ Inquiries Mobility Center / Ahn, Min-Ho T. 070-5083-2686 / amh328@icrqa.com

## IEC 62619 Standard tests



IEC 62619 specifies requirements and tests for the safe operation of secondary lithium cells and batteries used in industrial applications, including stationary applications.

#### Test items

	Tests		Test unit	
Category			Cell/Cell block	Battery system
Product safety test	7.2.1 External short-circuit test		Required	-
	7.2.2 Impact test		Required	-
	7.2.3 Drop test		Required	Required
	7.2.4 Thermal abuse test		Required	-
	7.2.5 Overcharge test		Required	-
	7.2.6 Forced discharge test		Required	-
	7.3 Internal short-circuit (select one of the two options)	7.3.2 Internal short-circuit test	Required	-
		7.3.3 Propagation test	-	Required
Functional safety test	8.2.2 Overcharge control of Voltage		-	Required
	8.2.3 Overcharge control of Current		-	Required
	8.2.4 Overheating control		-	Required

## IEC 62619 Standard tests



- The scope of application of IEC 62619 is from Stationary applications to Motive applications and it includes UPS, AGV, golf cart and forklift truck as well as ESS.
- If you have any inquiry about battery testing and certification service as well as IEC 62619, please feel free to contact our Battery Testing Center.

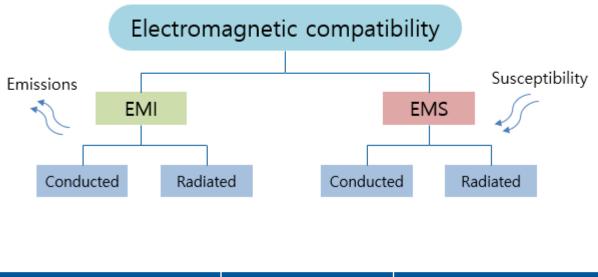
☎ Inquiries
Battery Testing Center / Yang, Chul-Ho
T. 02-6351-9003 / yangch@icrqa.com

# Revision of KS C 9610-6-4:2022

Emission standard for industrial environments were revised.

#### Electromagnetic interference(EMI)

- EMI can cause the instrument to malfunction by causing the instrument to emit electromagnetic waves to the outside, interfering with other instruments or control circuits.
- To prevent malfunction or damage to the device, standards should be set for electromagnetic interference.
- EMI is largely classified as conducted emission (CE) and radiated emission (RE).



# Revision of KS C 9610-6-4:2022

#### Revised items

#### 1) Revised scope

Before the revision	After the revision
This part of KS C 9610-6-4 for emission requirements applies to electrical and electronic equipment intended for use within the industrial environment locations, and emission requirements in the frequency range 0 Hz to 400 GHz are covered. No measurement needs to be performed at frequencies where no requirement is specified.	This part of KS C 9610-6-4 for emission requirements applies to electrical and electronic equipment intended for use within the industrial environment locations. The environments encompassed by this document cover both indoor and outdoor locations. Emission requirements in the frequency range 9 kHz to 400 GHz are covered in this document and have been selected to provide an adequate level of protection of radio reception in the defined electromagnetic environment. No measurement needs to be performed at frequencies where no requirement is specified.

#### 2) Add operating conditions

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	Intended operational arrangement(s) of EUT	Test arrangement	Remarks
	Table-top only	Table-top	-
	Floor-standing only	Floor-standing	-
	Can be floor-standing or table-top	table-top	-
	Rack mounted	In a rack or table-top	-
Other, for example wall mounted, ceiling mounted, handheld, body worn		Table-top	With normal orientation If the equipment is designed to be mounted on a ceiling, the downward- facing portion of the EUT may be oriented facing upward.
:361	1, Hagun-ri, Yangchon-eup, Gimpo-si, Co	ompany Id No : 110111-24314	7 Tel : (+82)2-6351-9001~5 / Fax : (+82)2-6351-

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#### ICR, EMI Test photographs



<Conducted emission test>



<Radiated emission test>

The ICR has test equipment for KSC 9610-6-4 specification and can be tested. We can also be field tested Fixedinstallation equipment used in industrial environments.

> ☐ Inquiries Industrial Safety Center / Yang, Dae-Song T.070-5083-2658 / yds@icrqa.com

Notice on the designation and management of testing agencies for broadcasting and communication equipment, etc.



#### National Radio Research Institute Notice No. 2023-10

The purpose of this notice is to prescribe details necessary for the examination and designation (including modification, abolition and approval) of agencies conducting conformity assessment tests as prescribed by Articles 58-5 to 58-7 of the Radio Act (hereinafter referred to as the "Act") and Articles 77-12 of the same Act (hereinafter referred to as the "Decree").

> 03/06/2023 Director of the National Radio Research Agency

- When filing a complaint with a testing agency, it shall be revised to simplify the submission of data on administrative information of disclosure and to make the format and the attached table according to the revision of international standards and EM compatibility test methods.
- I. Simplified submission of data and improved format when filing a complaint with a testing agency (Article 4 (2) and Attached Forms 1, 4, and 5)

### Notice on the designation and management of testing agencies for broadcasting and communication equipment, etc.



- In the case of public administrative information pursuant to the "Electronic Government Act", the public official in charge shall confirm the joint use system of administrative information, removing clues to the relevant provisions and improving related forms.
- 2. Currentization of the form of the designation in accordance with the revision, etc. of standards for international quality control of testing institutions (attached Form 2)
  - Revision of ISO/IEC 17025 (2005→2017 version), an international standard for the qualification of conformity evaluation testing institutions such as broadcasting and communications equipment, etc., is the current form of designation.

### ■ 3. Currentization of test items in the field of

electromagnetic compatibility(1)

(Attachment 1 to Article 3 (1))

 The KN standard of the EM compatibility test items in accordance with the revision of the EM compatibility test method (National Radio Research Institute Notice No. 202-40, 2.5.31.) is the current KS standard. Notice on the designation and management of testing agencies for broadcasting and communication equipment, etc.



#### 4. Change Terminology

- Application for designation → Application for designation of a testing agency such as broadcasting and communication equipment
- Application for approval of transfer → Application for approval of transfer of broadcasting communication equipment, etc. test institution
- Application for merger approval → Application for merger approval of testing institutions such as broadcasting and communication equipment, etc.
- Test field within the specification  $\rightarrow$  Designation field within the specification
- Test item 339 KN 60945 (radio equipment for marine business)  $\rightarrow$  KS X 340 (radio equipment for marine business)

☎ Inquiries EMC&RF Test Center / Son, Min-Gi T. 070-5081-0023 / thsalsrl@icrqa.com