

Reliability Laboratory

Report No.: HE10029/2012

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Date: February 8, 2012

KUNG LONG BATTERIES INDUSTRIAL CO., LTD. NO. 6, TZU-LI 3 RD., NANTOU CITY, 54067, TAIWAN

The following merchandise was submitted and identified by the vendor as:

Product Description: Valve-Regulated Sealed Lead-Acid Battery

Style/ Item No.: WP12-12 / No.1

Manufacturer/Vendor: Kung Long Batteries Industrial Co., Ltd.

Quantity: Total 1 set

Testing Period: Feb. 3, 2012 to Feb. 7, 2012

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required: Packaging Instruction 872 in IATA Dangerous Goods Regulations 2011.

Conclusion

In our opinion, submittals samples comply with the requirement of Packaging Instruction 872 in IATA Dangerous Goods Regulations 2011.

Signed for and on behalf of SGS TAIWAN Ltd.

Norman Wu Supervisor

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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

t (886-2) 2299-3279 f (886-2) 2299-9558

www.tw.sgs.com
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Lab Environmental Conditions:

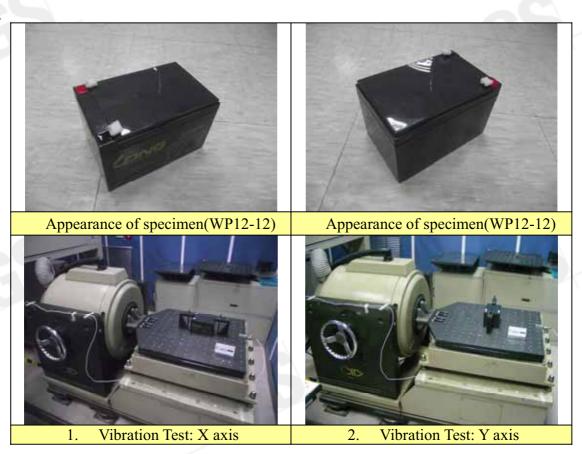
20±5°C Ambient temperature:

Relative humidity: 55±20%RH

Test Equipment:

	Name	Brand	Model	Serial No.
Vac	cuum-Temperature Cabinet	YEONG SHIN	DOBL-45	YSCB940280E
Vib	oration Test System	KING DESIGN	EM-800F2K-50N120	RU104080389
Co	ntroller	Dactron	COMET 200	10539718
Co	ntrol Accelerometer	PCB	353B34	139174
Pro	ogrammable Temperature Humidity Chamber	KSON	NHC-2003	3967

Images



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Images--Continued::



Vibration Test: Z axis



4. Pressure differential Test



High Temperature Test

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TEST REPORT

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T	Test Method/ Specification:					
	Packaging Instruction 872					
	Test method:	1. Vibration test — The battery is rigidly clamped to the platform of a vibration				
		machine and a simple harmonic motion having an amplitude of 0.8 mm (0.032)				
		in) (1.6 mm [0.063 in] maximum total excursion) is applied. The frequency is				
		varied at the rate of 1 Hz/min between the limits of 10 Hz to 55 Hz. The entire				
6		range of frequencies and return is traversed in 95 \pm 5 minutes for each				
		mounting position (direction of vibration) of the battery. The battery must be				
		tested in three mutually perpendicular positions (to include testing with fill				
		openings and vents, if any, in an inverted position) for equal time periods.				
		2. Pressure differential test — Following the vibration test, the battery is stored				
		for six hours at 24°C \pm 4°C (75°F \pm 8°F) while subjected to a pressure				
		differential of at least 88 kPa. The battery must be tested in three mutually				
		perpendicular positions (to include testing with fill openings and vents, if any,				
		in an inverted position) for at least six hours in each position.				
		3. Non-spillable batteries are not subject to the provisions of this Code if, at a				
1		temperature of 55°C, the electrolyte will not flow from a ruptured or cracked				
		case and there is no free liquid to flow and if, when packaged for transport, the				
		terminals are protected from short circuit.				

Test Result:

Requirement:

1. Vibration Test:

ibiation lest.	
Check Item	Appearance check
Style/Item No.	(Visual check)
WP12-12 / No.1	No leakage of battery fluid

Pressure Different Test:

Check Item Style/Item No.	Appearance check (Visual check)
WP12-12/ No.1	No leakage of battery fluid

High Temperature Test:

Check Item Style/Item No.	Appearance check (Visual check)
WP12-12/ No.1	No leakage of battery fluid

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No leakage of battery fluid



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Test Summary:

Test Item	Test Result	Note
Packaging Instruction 872	Pass	

The End of Test Report

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