

IATA – IMDG - ADR Conformity	 GS YUASA BATTERY GERMANY GmbH	FO-QAT02-B
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TRANSPORTATION OF YUASA BATTERIES BY AIR, SEA AND/OR LAND
Series of VRLA BATTERIES: *NP, NPC, NPH, NPL, NPW, RE, REC, REW, SWL, TEV, UXH, UXL, UXF, FXH, ENDURANCE (EN / ENL / FT) , YTZ, GYZ*

Under IATA Dangerous Goods Regulations 61st Edition effective 1st January 2020 until 31st December 2020, accordance to IATA-Resolution 618 Annex "A" and in consultation with ICAO the above batteries are classified as:

Valve Regulated Lead-Acid (VRLA) Battery

Battery, wet, non-Spillable electric storage

Substance classification: UN 2800

"Class 8, Group III , no limit, special provision A48, A67, A164 and A183."

These batteries are classified as non-spillable because they have been shown to meet the requirements of the above IATA-Regulations as stated in Packing Instruction 872 Chapter 5 on page 666ff (German version).

This is also according to special directive IMDG 238.2 (International Maritime Dangerous Goods Code) . Furthermore this checking apply to IMDG chapter 3.3.1 reference 238.1 and 238.2.

Transport Information

Components		
VRLA Battery	Air Transport	Air Transport (IATA-DGR) <ul style="list-style-type: none"> • UN No: 2800 • Classification: Class 8 • Proper Shipping Name: BATTERIES, WET, NON-SPILLABLE electric storage • <u>Special Provision A48</u>: Packing Test are not considered necessary • <u>Special Provision A67</u>: Yuasa’s VRLA batteries meet the requirements of Packing Instruction 872. <p>The battery has been prepared for transport so as to prevent:</p> <ol style="list-style-type: none"> a) A short-circuit of the battery’s terminals by packing in a strong and sturdy carton box; AND/OR b) The battery has been fitted with an insulating cover (made from ABS) which prevents contact with the terminals. c) Unintentional activation is thus prevented <p>The words "NOT RESTRICTED" and the special Provision (SP) number must be indicated on all shipping documents</p> <ul style="list-style-type: none"> • <u>Special Provision A164</u>: The battery has been prepared for transport so as prevent: <ol style="list-style-type: none"> a) Short-circuit of the battery’s terminals by packing in a strong and sturdy carton box; AND/OR b) The battery has been fitted with cover (made from ABS) which prevents contact with the terminals c) Unintentional activation is thus prevented

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	Land Transport	Land Transport (ADR / RID) <ul style="list-style-type: none"> • UN No: UN2800 • Classification ADR / RID: Class 8 • Proper Shipping Name: BATTERIES, WET, NON-SPELLABLE electric storage • Packing Group ADR: not assigned • Tunnel code: E • ADR / RID: New and spent (used) batteries are exempt from all ADR / RID (special provision 598)
	Sea Transport	Sea transport (IMDG Code) <ul style="list-style-type: none"> • UN No: UN2800 • Classification: class 8 • Proper Shipping Name: BATTERIES, WET, NON-SPELLABLE electric storage • EmS: F-A, S-B Non-spillable batteries meet the requirements of Special Provision 238; they are therefore exempt from all IMDG codes and are not regulated for sea transport.
	All methods of transport	<p>Do not place VRLA batteries inside sealed enclosures.</p> VRLA Batteries emit hydrogen gas which is highly flammable and will form explosive mixtures in air from approx. 4% to 76%. This can be ignited by a spark at any voltage, naked flames or other sources of ignition.

If this document is printed, it is to be considered uncontrolled and for reference only.
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NO.2220010358



货物运输条件鉴定书

Certification
for Safe Transport of Chemical Goods

非限制性货物

样品名称： 阀控式密封铅酸蓄电池 SHR7-12(12V/27Wpc)

Sample Name: Valve Regulated Lead-Acid Rechargeable Battery
SHR7-12(12V/27Wpc)

委托单位： 长沙镁镁科技有限公司

生产单位： 美美电池有限公司



上海化工院检测有限公司

Shanghai Research Institute of Chemical Industry Testing Co., Ltd



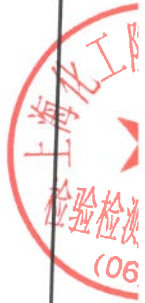
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NO. 2220010358

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样品名称 Sample Name	中文 Chinese	阀控式密封铅酸蓄电池 SHR7-12(12V/27Wpc)
	英文 English	Valve Regulated Lead-Acid Rechargeable Battery SHR7-12(12V/27Wpc)
委托单位 Consignor	长沙镁镁科技有限公司	
生产单位 Manufacturer	美美电池有限公司	
检验方法、程序 Inspection Methods and Procedures	国际航空运输协会《危险品规则》61版 IATA Dangerous Goods Regulations (DGR) 61st Edition	
样品外观与气味 Appearance & Odor	黑色塑胶外壳, 无臭 Black Plastics cement shell, Odorless	
I D E N T I F I C A T I O N 鉴 定 结 论 C O N C L U S I O N	1. 危险性识别 (Hazards identification)	
	无。 None.	
	2. 空运按照IATA DGR办理的类项 (Suggestion according to IATA DGR)	
根据特殊规定A67, 可按非限制性货物条件办理。 The substance is not subject to IATA DGR according to special provision A67.		
3. 包装要求 (Packaging requirements)		
无。 None.		
检验日期: 2019-12-06 Inspection Date: 2019-12-06		签发日期: 2019-12-06 Issue Date: 2019-12-06
		生效日期: 2020-01-01 Valid Date: 2020-01-01
备注 Comment	无。 None.	



批准
Approver:

张小平

审核
Checker:

董学胜

主检
Appraiser:

钱玉婷



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序号 No	检验项目名称 Name of Test Items	标准要求或标准条款号 Standard requirement or The Clause Number of Standard	检测结果 Test Result	本项结论 Conclusion	备注 Remark
1	振动试验 Vibration test	联合国《关于危险货物运输的建议书 规章范本》3.3章 特殊规定238(a) UNITED NATIONS Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations Chapter 3.3 SPECIAL PROVISIONS 238(a)	合格。 Passed.	合格。 Passed.	/
2	压差试验 Pressure differential test	联合国《关于危险货物运输的建议书 规章范本》3.3章 特殊规定238(a) UNITED NATIONS Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations Chapter 3.3 SPECIAL PROVISIONS 238(a)	合格。 Passed.	合格。 Passed.	/
3	55℃漏液试验 Leakage test at 55℃	联合国《关于危险货物运输的建议书 规章范本》3.3章 特殊规定238(b) UNITED NATIONS Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations Chapter 3.3 SPECIAL PROVISIONS 238(b)	合格。 Passed.	合格。 Passed.	/
备注 Comment		这种电池须牢固在内包装中，以有效防止短路和防止可导致短路的移动。 Such batteries must be packed in inner packagings in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits.			

检
专用章

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有限公司



报告结束



NO.2220040111



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for Safe Transport of Chemical Goods

非限制性货物

样品名称： 阀控式密封铅酸蓄电池 SHR7-12(12V/27Wpc)

Sample Name: Valve Regulated Lead-Acid Rechargeable Battery
SHR7-12(12V/27Wpc)

委托单位： 长沙镁镁科技有限公司

生产单位： 美美电池有限公司



上海化工院检测有限公司

Shanghai Research Institute of Chemical Industry Testing Co., Ltd



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委托单位 Consignor	长沙镁镁科技有限公司	
生产单位 Manufacturer	美美电池有限公司	
检验方法、程序 Inspection Methods and Procedures	国际海事组织《国际海运危险货物规则》(2018版) IMO International Maritime Dangerous Goods Code (2018 Edition)	
样品外观与气味 Appearance & Odor	黑色塑胶外壳, 无臭 Black Plastics cement shell, Odorless	
I D E N T I F I C A T I O N 鉴 定 结 论 C O N C L U S I O N	1. 危险性识别 (Hazards identification) 无。 None.	
	2. 海运按照IMO IMDG Code办理的类项 (Suggestion according to IMO IMDG Code) 根据特殊规定238, 可按非限制性货物条件办理。 The substance is not subject to IMO IMDG Code according to special provision 238.	
C O N C L U S I O N	3. 包装要求 (Packaging requirements) 无。 None.	
	检验日期: 2020-04-20 签发日期: 2020-04-20 Inspection Date: Issue Date:	
备注 Comment	无。 None.	



批准
Approver:

[Signature]

审核
Checker:

[Signature]

主检
Appraiser:

[Signature]



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序号 No	检验项目名称 Name of Test Items	标准要求或标准条款号 Standard requirement or The Clause Number of Standard	检测结果 Test Result	本项结论 Conclusion	备注 Remark
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2	压差试验 Pressure differential test	联合国《关于危险货物运输的建议书 规章范本》3.3章 特殊规定238(a) UNITED NATIONS Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations Chapter 3.3 SPECIAL PROVISIONS 238(a)	合格。 Passed.	合格。 Passed.	/
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