



中国认可 国际互认 检测 TESTING CNAS L0095

Page 1 of 14 Pages No.: GJW2021-4703

TEST REPORT

NAME OF SAMPLE:

Valve regulated lead acid battery

CLIENT:

JYC POWER CO., LIMITED

CLASSIFICATION OF TEST:

Commission Test



检测报告 TEST REPORT

	••••
No.: GJW2021-4703	Page 2 of 14 Pages
Name of product:	Trade mark:
Valve regulated lead acid battery	JYC, EXOR, V-TRUST, KOZAR
Type/Model by:	Sample identification:
12V65Ah,12V75Ah,12V100Ah,	12V250Ah, 1#~3#, 12V200Ah, 4#,
12V150Ah,12V200Ah,12V250Ah	12V150Ah, 5#, 12V100Ah, 6#,
	12V75Ah, 7#, 12V65Ah, 8#
Manufacturer by:	Commissioned by:
JYC Battery Manufacturer Co,.Ltd	JYC POWER CO.,LIMITED
Manufacturer address:	Commissioner address:
Wengcheng Industrial Park, Guandu development	SUITE 913B, 9/F, OCEAN CENTRE, 5
Zone,Wengyuan, Shaoguan, Guangdong, P. R.	CANTON ROAD, TSIM SHA TSUI, KLN,
China	HONG KONG
Quantity of sample:	Sampled by:
8 pcs	—
Sample status:	Sampling at (place):
The samples' status is good.	—
Means of receiving:	Means of sampling:
Submitted by Manufacturer	—
Classification of test:	Sampling date:
Commission Test	—
Receiving date:	Completing date:
2021-08-30	2021-09-23
Tested according to:	Test item:
IEC 60896-21:2004, IEC 60896-22:2004	11 items

Test conclusion:

The Valve regulated lead acid batteries submitted by JYC POWER CO.,LIMITED. are tested according to IEC 60896-21:2004 Stationary lead-acid batteries - valve regulated types-methods of test and IEC 60896-22:2004 Stationary lead-acid batteries - valve regulated types-requirements.

The test results of Internal ignition from external spark sources, Protection against ground short propensity, Content and durability of required markings, Material identification, Valve operation, Flammability rating of materials, Discharge capacity comply with IEC 60896-21:2004 and IEC 60896-22:2004.

The test values of the Gas emission, High current tolerance, Short circuit current and d.c. internal resistance, Intercell connector performance are stated in the tepart.

Reviewed by:



Title:

...e.

Approved by: Huang Kun

Manager

Zhang Siyao

ao Tested by:

Deng Junzhao

Hungen





Description and illustration of the sample:

The samples' status is good.

Туре	Items
12V250Ah	Gas emission, High current tolerance, Short circuit current and d.c. internal resistance, Internal ignition from external spark sources, Protection against ground short propensity, Content and durability of required markings, Material identification, Valve operation, Flammability rating of materials, Intercell connector performance, Discharge capacity
12V65Ah 12V75Ah 12V100Ah 12V150Ah 12V200Ah	Discharge capacity
Description of the	sampling procedure:
	/
Description of the o	deviation from the standard, if any:
	/
Remarks: Throughout this re	port a comma is used as the decimal separator.



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LTC-R-4793-IEC60896-21-A0

Photos and markings

12V65Ah







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12V75Ah

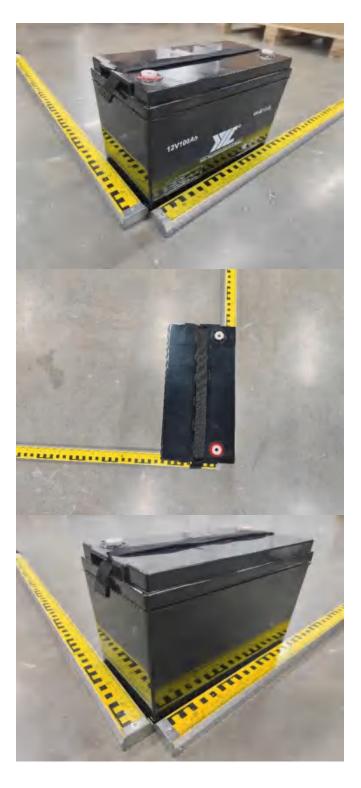






Photos and markings

12V100Ah



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12V150Ah







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12V200Ah







CI.

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Result

IEC 60896-21:2004 IEC 60896-22:2004

Requirement - Test

Verdict

6	Safe operation requirements						
6.1	Gas emission						
	The test methods are according to clause6.1.1	Nia		12V2	50Ah		
	to 6.1.14 which are stated in the standard IEC 60896-21	No.	1#				
	Requirement and application: At the rated float		TI AST	TI and	TI ord	TI 4th	
	charge voltage;	Uflo(V)=2,2 75	The 1 st	The 2 nd	The 3 rd	The 4 th	state
	state data for all applications: ml gas per cell, h	ml	0,0007	0.0006	0,0006	0,0006	data
	and Ah at 20°C;	/(Ah·h·cell)	1	9	8	9	uulu
	Requirement and application: at 2,40Vpc	at 2,40Vpc		12\/2	50Ah		
	overcharge voltage conditions;	overcharge					
	state data for all applications: ml gas per cell, h	ml		2			
	and Ah at 20°C;	/(Ah·h·cell)		0,00	129		
6.2	High current tolerance	-			-		
	The test methods are according to clause6.2.1	after 30s o					
	to 6.2.6 which are stated in the standard IEC 60896-21	showed no electrical cor		meiting	or of no	IOSS OF	
	Requirement and application: Measure unit			401/2			
	voltage, inspect and document the status of	model		12V2	50Ah		
	the top-lead and terminals of each unit after	current		50	0A		
	30s current flow;				<u> </u>		state
	Pass for all applications: Show evidence of no incipient melting or of no loss of electrical	No.	1#	2	#	3#	data
	continuity after 30s of high current flow (value						
	to be stated).						
	After the completion of the specified discharge	(Voltage after the	12,29	10	,31	12,28	
	duration, the test shall stand for 5minutes in	test)	12,29	12	,51	12,20	
	open circuit and their voltage measured and reported.	1001)					
6.3	Short circuit current and d.c. internal resista	ance					
	The test methods are according to clause6.3.1						
	to 6.3.6 which are stated in the standard IEC	model		12V2	50Ah		
	60896-21						
	Define prospective short-circuit value lsc and internal resistance Ri of all units of a type	No.	1#	2	#	3#	
	range	110.		-		0//	state data
		Short-circui					uala
	The test methods are according to clause6.3.1	t: (A)	3850	38	40	3850	
	to 6.3.6 which are stated in the standard IEC	. ,					
	60896-21	Resistance:	0,0027	7 0,0	028	0,0027	
		(mΩ)		,		,	
6.4	Protection against internal ignition from exte	ernal spark s	sources				
	The test methods are according to clause6.4.1 to 6.4.6 which are stated in the standard IEC	12V250Ah	1#, 2#	3#			Р
	60896-21	12 VZOUAII	ı#,∠#	, 3#			
	Requirement and application: induce sparks						
	near representative valve/barrier assemblies						
	during emission	No evidence				xplosion	Р
	Pass for all application: no evidence of rapid combustion or explosion beyond valve/barrier	beyond valve	e/barrier	assembli	es.		
	assemblies						
L		1					

Requirement – Test

CI.

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Result

Verdict

IEC 60896-21:2004 IEC 60896-22:2004

6.5 Protection against ground short propensity The test methods are according to clause6.5.1 to 6.5.9 which are stated in the standard IEC 12V250Ah 1#, 2#, 3# 60896-21 Ρ Requirement and application: Operate units in different orientations and apply d.c. gradient; No evidence of ground short, no leakage. Pass for all applications: No evidence of ground short and leakage phenomena; 6.6 Content and durability of required markings The test shall consist of visual verification of a) the presence and b) the legibility of all the required markings before and after exposure to selected chemicals 12V250Ah 1#, 2#, 3# The test methods are according to clause 6.6.1 to 6.6.4 which are stated in the standard The markings are readable after rubbed 15s Р IEC 60896-21 including test with water and with water, petroleum, solution of sodium aliphatic solvent. test with neutralizing carbonate, and 40% in weight of H₂SO₄ in solutions and test with electrolyte water respectively. Requirement and application: The requested information is present. 1.Information shall remain readable after exposure to chemicals and remain in place 2 Requested information to be present 6.7 Material identification The test methods are according to clause6.7.1 to 6.7.4 which are stated in the standard IEC 12V250Ah 1#, 2#, 3# 60896-21 Requirement and application: Inspect case and/or cover for ISO 1043-1 Ρ materials symbols. Expose to chemicals. The cover and case is ABS material. Pass for all applications: ISO symbols present on the outside of the cover or/and case. Symbols shall remain readable after exposure to chemicals and remain in place 6.8 Valve operation The test methods are according to clause6.8.1 12V250Ah: 1#, 2#, 3# to 6.8.3 which are stated in the standard IEC open valve pressure is: 25~35kpa close valve 60896-21 pressure is: 15~25kpa Ρ Requirement and application: Overcharge units and detect gas flow from the valve; Gas release is detected before and after stress Pass for all applications: Gas release detected temperature impact test. before and after stress temperature impact test.

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IEC 60896-21:2004 IEC 60896-22:2004

CI.	Requirement – Test	Result	Verdict
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6.9	Flammability rating of materials		
	The test methods are according to clause 6.9.1 to 6.9.4 which are stated in the standard IEC 60896-21 Requirement and application Determine flammability rating of case and cover material; State data for all applications: State the flammability rating level for samples of thickness equivalent to that of case and cover.	12V250Ah 1#, 2#, 3# Flammability rating level: V-0	Ρ
6.10	Intercell connector performance The test methods are according to clause6.10.1 to 6.10.2 which are stated in the standard IEC 60896-21 Requirement and application: Measure and report maximum intercell connector temperature reached; State data for all applications: Stats maximum	Test result: model 12V250Ah Maximum temperature reached:40°C	Ρ
6.11	temperature reached. Discharge capacity		
	The test methods are according to clause6.11.1 to 6.11.12 which are stated in the standard IEC 60896-21 Requirement and application: Determine actual capacity C_a ; C_a to be at least × % of C_{rt} with all units at all rates shown below ; 10h \ 8h \ 3h \ 1h \ 0,25\ 1,80Vpc\1,75Vpc\ 1,70Vpc\ 1.60\Vpc 1.60Vpc\ Ca≥95% C_{rt}	See appended table A and B.	Ρ

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		Table A: 6,11	Discharge capao	city	
model			12V250Ah		
C No	C ₁₀ (Ah)	C ₈ (Ah)	C ₃ (Ah)	C (Ah)	C _{0,25} (Ah)
Crt	250	200	187,5	164,3	92,5
			Са		
1#	253,4	258,6	217,6	164,3	107,5
2#	255,3	256,2	214,3	165,2	106,8
3#	256,8	252,3	211,8	162,3	106,7
		9	%of Crt		
1#	101,3	129,3	116,0	119,5	116,2
2#	102,1	128,1	114,3	120,1	115,4
3#	102,7	126,1	112,9	118,0	115,3

	Table B: 6,11 Discharge capacity					
model	12V200Ah	12V150Ah	12V100Ah	12V75Ah	12V65Ah	
No	4#	5#	6#	7#	8#	
С	C ₁₀	C ₁₀	C ₁₀	C ₁₀	C ₁₀	
C _{rt} (Ah)	200	150	100	75	65	
Ca	208,2	157,6	104,8	76,2	68,1	
%of C _{rt}	104,1	105,1	104,8	101,6	104,7	

Important

- 1. The test report is invalid without the official stamp of CVC.
- 2. Nobody is allowed to photocopy or partly photocopy this test report without written permission of CVC.
- 3. The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.
- 4. The test report is invalid if altered.
- 5. Objections to the test report must be submitted to CVC within 15 days.
- 6. The test report is valid for the tested samples only.
- 7. As for the Verdict, "-" means "no need for judgement", "P" means "pass" , "F" means "fail" and "N/A" means "not applicable".

The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

Lab Address: No.3, Tiantai 1st Road, Kaitai Avenue, Science City, Guangzhou, Guangdong, China.

Testing Location: Building D, BASIGO INTELLIGENT, No.179, Guangpu East Road, Huangpu District, Guangzhou, P. R. China.

(Tel): 020 32293888 (Post Code): 510663

(FAX): 020 32293889 E-mail: office@cvc.org.cn

http://www.cvc.org.cn





TEST REPORT

Report No:	HST201910-19597-WT
Sample Description:	Valve Regulated Lead Acid Battery
Model:	See the Table 1
Assessment Category.:	Entrusted
Applicant	JYC POWER CO., LIMITED

Guangdong Huesent Testing & Inspection Technology Co., Ltd.



TEST REPORT

Sample Description	Valve Regulated Lead Acid Battery	Trademark	1
Model	See the Table 1	Specification	See the Table 1
Assessment Category	Entrusted	Sample Quantity	6 pieces
Applicant	JYC POWER CO., LIMITED	Sample Status	The samples are sound, intact and fit for test.
Sample Received Date	2019.10.15	Test Date	2019.10.15-2019.10.27
Manufacturer	JYC Battery Manufacturer Co.,	Ltd	
Address	Wengcheng Industrial Park, Gu Guangdong, China	uandu development Zo	one,Wengyuan, Shaoguan,
Factory	JYC Battery Manufacturer Co.,	Ltd	
Address	Wengcheng Industrial Park, Gu Guangdong, China	uandu development Zo	one,Wengyuan, Shaoguan,
Test address	Unit 102,4th Building, HongJi e Road, NantouTown, Zhongsha		nterprises Port, Tongji West
Test Items	See the report below.		
Test standard	IEC 61056-1:2012 General pu Part 1: General requirements, IEC 61056-2:2012 General pu Part 2: Dimensions, terminals	functional characterist rpose lead-acid batteri	ics - Methods of test
Test Conclusion	The results conform to the requ	Hues	with respect to the test items
Remarks	There are thirty-eight models (with the difference being the performed on 12V70AH.		
Tested by : Ben	Sign: Ben		
Reviewed by: John	Sign: John	7	
Approved by: Louis	Sign: Love	[

Table 1:Models for application				
No.	Models	No.	Models	
1	12V1.2AH	20	12V45AH	
2	12V2.2AH	21	12V50AH	
3	12V3.3AH	22	12V70AH	
4	12V3.4AH	23	12V75AH	
5	12V3.5AH	24	12V80AH	
6	12V5.5AH	25	12V90AH	
7	12V6AH	26	12V100AH	
8	12V6.5AH	27	12V110AH	
9	12V7.2AH	28	12V120AH	
10	12V8AH	29	12V150AH	
11	12V8.5AH	30	12V180AH	
12	12V10AH	31	12V200AH	
13	12V15AH	32	12V220AH	
14	12V20AH	33	12V230AH	
15	12V22AH	34	12V250AH	
16	12V28AH	35	BATTERY 12V12Ah Deep Cycl	
17	12V34AH	36	BATTERY 12V18Ah Deep Cycl	
18	12V35AH	37	BATTERY 12V26Ah Deep Cycl	
19	12V42AH	38	BATTERY 12V36Ah Deep Cycle	

TEST RESULT

Items	IEC 61056-1:2012	Result - Remark	Verdict
	7 Test methods		
1	7.2 Capacity Ca (actual capacity at the 20 h discharge rate)		
	The test methods are according to clause 7.2.1 to 7.2.4 which are stated in the standard IEC 61056-1:2012	1#: Ca =78.1Ah 2#: Ca =77.5Ah	P
	Specific requirements: C_a shall be equal to, or higher than, C_{20} .	3#: Ca =77.8Ah	
2	7.3 High rate capacity		
	The test methods are according to clause 7.3.1 to 7.3.3 which are stated in the standard IEC 61056-1:2012	4#: 34min	
	Specific requirements: During discharge with $20 \times I_{20}$, the discharge time shall reach 27 min or more within 5 cycles of charging and discharging.	4#: 34min 5#: 32min 6#: 33min	Ρ
3	7.8 Maximum permissible current		
	The test methods are according to clause 7.8.1 to 7.8.7 which are stated in the standard IEC 61056-1:2012	h	
	Specific requirements: Batteries shall be suitable to maintain a current of $I_m = 40 \times I_{20}$ for 300 s and of $I_h = 300 \times I_{20}$ for 5 s, unless otherwise specified by the manufacturer, without distortion or other damage to the battery.	The battery have no distortion or other damage	Ρ
4	7.9 Charge acceptance after deep discharge		
	The test methods are according to clause 7.9.1 to 7.9.4 which are stated in the standard IEC 61056-1:2012	1#: Ca =69.5Ah	P
	Specific requirements: The resulting capacity in ampere-hours shall be $\ge 0.75 \times C_{20}$ (Ah).	2#: Ca =69.2Ah 3#: Ca =68.8Ah	P
5	7.10 Gas emission intensity		
	7.10.1 Gas emission intensity with constant voltage	At the rated float	
	The test methods are according to clause 7.10.1.1 to 7.10.1.7 which are stated in the standard IEC 61056-1:2012	charge voltage. Unit of Ge is	
	Specific requirements: When the gas emission intensity is determined during constant voltage float charging , the value G_e shall not be greater than 0,05 ml × cell ⁻¹ × h ⁻¹ × Ah ⁻¹ .	ml/(hour•Ah•cell) 4#: Ge=0,0017 5#: Ge=0,0016 6#: Ge=0,0016	Ρ

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TEST RESULT

Items	IEC 61056-1:2012	Result - Remark	Verdict		
6	Operation of regulating valve and over pressure resistance				
	The test methods are according to clause 7.11.1 to 7.11.2 which are stated in the standard IEC 61056-1:2012	Valve pressure: 20,1kpa~24,0kpa			
	Specific requirements: When the test is performed in accordance with 7.11.1, the operating pressure of vent valve shall be 0,98 kPa to 196,1 kPa.		Р		
7	7.12 Vibration resistant characteristics				
	The test methods are according to clause 7.12.1 to 7.12.2 which are stated in the standard IEC 61056-1:2012	No deformation, damage or leakage U=13.13V			
	Specific requirements: During the test according to 7.12, terminal voltage shall be not less than nominal voltage. The battery shall be free from cracks and liquid leakage when inspected visually. Thedeformations shall not exceed the range of dimensions given in Table 1 and Table 2 of IEC 61056-2:2011.		Ρ		
8	7.13 Shock resistant characteristics				
	The test methods are according to clause 7.13.1 to 7.13.2 which are stated in the standard IEC 61056-1:2012	No deformation, damage or leakage U=13.15V	Ρ		
	Specific requirements: During the test according to 7.13, terminal voltage shall be not less than nominal voltage. The battery shall be free from cracks and liquid leakage when inspected visually. Thedeformations shall not exceed the range of dimensions given in Table 1 and Table 2 of IEC 61056-2:2011.				

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TEST RESULT

Item	IEC 61056-2:2012	Result - Remark	Verdict		
9	4 Dimensions				
	The standardized battery dimensions are listed in the standard IEC 61056-2:2012, tables 1 and 2, together with nominal voltage, configuration, and capacity.	Length: 260mm Width: 169mm Height: 210mm	Р		
10	5 Terminals				
	Terminal types and dimensions are depicted in the standard IEC 61056-2:2012, Figures 3, 4, 5, 6 and 7.	Compliance	Р		
	6 Marking				
11	6.1 Marking of polarity				
	The polarity shall be marked by the symbol of "+" on the positive pole and "-" on the negative pole. The case where the battery carries a marking of polarity of both terminals by the color of the lead wire connected to the battery shall be as specified in IEC 60445.	Compliance	Ρ		
12	6.2 Marking items				
	The marking contains the minimum information which has to be supplied with the battery. The following information shall be clearly and permanently marked on each battery: a) supplier's or manufacturer's name or trade mark; b) type designation or product name; NOTE The standardized type designation is a mnemonic term to define the batteries covered under this standard. c) nominal voltage (n × 2,0 V); d) rated capacity C20; e) polarity; f) date of manufacture, its abbreviation or code; g) safety symbols according to national or international standards; h) recycling symbol (see IEC 61429).	Compliance	Ρ		





--End of Report --

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Report Statement

- 1. Thistest report is invalid ifaltered, additions and deletions.
- 2. Thistest report is responsible for tested samples only .
- 3.Objections to the test report must be submitted to Guangdong HuesentTesting & Inspection Technology Co., Ltd. within 15 days.
- 4. The test report is invalid without the signatures of tester, reviewer ,approver ,and official stamp of test unit.
- 5.Without permission of Guangdong Huesent Testing & Inspection Technology Co., Ltd., This report is not permitted to be duplicated in extracts.
- 6."P"=Pass=Test item conform to the requirement "F"= Fail=Test item not conform to the requirement
 - "N"= Not Applicable =Test item Not Applicable to the test object







中国认可 国际互认 检测 TESTING CNAS L2885

TEST REPORT

Report No	HST201906-09962-WT	
Sample Description:	Valve Regulated Lead Acid Battery	
Model	See the Table 1	6
Assessment Category.:	Entrusted	Internet
Applicant	JYC POWER CO., LIMITED	

Guangdong Huesent Testing & Inspection Technology Co., Ltd.



Report No. : HST201906-09962-WT

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TEST REPOR

Sample Description	Valve Regulated Lead Acid Battery	Trademark	T
Model	See the Table 1	Specification	See the Table 1
Assessment Category	Entrusted	Sample Quantity	6 pieces
Applicant	JYC POWER CO.,LIMITED	Sample Status	The samples are sound, intact and fit for test.
Sample Received Date	2019.06.05	Test Date	2019.06.05-2019.06.24
Manufacturer	JYC POWER CO., LIMITED		
Address	SUTE 913B, 9/F, OCEAN CEN HONG KONG	TER, 5 CANTON ROA	AD, TSIM SHA TSUI, KLN,
Factory	JYC Battery Manufacturer Co.,	Ltd	
Address	Wengcheng Industrial Park, Gu Guangdong, China	andu development Zo	one,Wengyuan, Shaoguan,
Test address	Unit 102,4th Building, HongJi e Road, NantouTown, Zhongshar		nterprises Port, Tongji West
Test Items	See the report below.		
Test standard	IEC 61056-1:2012 General pu Part 1: General requirements, f IEC 61056-2:2012 General pur Part 2: Dimensions, terminals a	unctional characteristi pose lead-acid batteri	ics - Methods of test
Test Conclusion	The results conform to the requ	Hucesen	with respect to the test items.
Remarks	There are nineteen models (S with the difference being the performed on 12V7AH.		
Tested by : Ben	sign: Ben		
Reviewed by: John	Sign: John		
Approved by: Louis	Sign: Lovy		

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Table 1:Models for application				
No.	Models	No.	Models	
1	12V1.3AH	11	12V18AH	
2	12V2.3AH	12	12V24AH	
3	12V3.2AH	13	12V26AH	
4	12V4AH	14	12V33AH	
5	12V4.5AH	15	12V38AH	
6	12V5AH	16	12V40AH	
7	12V7AH	17	12V55AH	
8	12V9AH	18	12V60AH	
9	12V12AH	19	12V65AH	
10	12V17AH	-	¥	

TEST RESULT

Items	IEC 61056-1:2012	Result - Remark	Verdic		
-	7 Test methods				
1	7.2 Capacity Ca (actual capacity at the 20 h discharge rate)				
	The test methods are according to clause 7.2.1 to 7.2.4 which are stated in the standard IEC 61056-1:2012	1#: C _a =7.86Ah 2#: C _a =7.76Ah	P		
	Specific requirements: C_a shall be equal to, or higher than, C_{20} .	3#: C _a =7.74Ah			
2	7.3 High rate capacity				
	The test methods are according to clause 7.3.1 to 7.3.3 which are stated in the standard IEC 61056-1:2012	4#: 37min			
	Specific requirements: During discharge with $20 \times I_{20}$, the discharge time shall reach 27 min or more within 5 cycles of charging and discharging.	4#: 37min 5#: 35min 6#: 36min	Ρ		
3	7.8 Maximum permissible current				
	The test methods are according to clause 7.8.1 to 7.8.7 which are stated in the standard IEC 61056-1:2012	The batton bave no			
	Specific requirements: Batteries shall be suitable to maintain a current of $l_m = 40 \times l_{20}$ for 300 s and of $l_h = 300 \times l_{20}$ for 5 s, unless otherwise specified by the manufacturer, without distortion or other damage to the battery.		Ρ		
4	7.9 Charge acceptance after deep discharge				
	The test methods are according to clause 7.9.1 to 7.9.4 which are stated in the standard IEC 61056-1:2012	1#: C _a =7.02Ah 2#: C _a =6.98Ah 3#: C _a =6.92Ah	P		
	Specific requirements: The resulting capacity in ampere-hours shall be $\ge 0.75 \times C_{20}$ (Ah).		P		
5	7.10 Gas emission intensity				
	7.10.1 Gas emission intensity with constant voltage	At the rated float charge voltage. Unit of Ge is			
	The test methods are according to clause 7.10.1.1 to 7.10.1.7 which are stated in the standard IEC 61056-1:2012				
	Specific requirements: When the gas emission intensity is determined during constant voltage float charging , the value G_e shall not be greater than 0,05 ml × cell ⁻¹ × h ⁻¹ × Ah ⁻¹ .	ml/(hour•Ah•cell) 4#: Ge=0,0016 5#: Ge=0,0016 6#: Ge=0,0017	P		

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TEST RESULT

Items	IEC 61056-1:2012	Result - Remark	Verdict	
6	Operation of regulating valve and over pressure resistance			
	The test methods are according to clause 7.11.1 to 7.11.2 which are stated in the standard IEC 61056-1:2012	Valve pressure: 20,6kpa~24,2kpa		
	Specific requirements: When the test is performed in accordance with 7.11.1, the operating pressure of vent valve shall be 0,98 kPa to 196,1 kPa.		Ρ	
7	7.12 Vibration resistant characteristics			
	The test methods are according to clause 7.12.1 to 7.12.2 which are stated in the standard IEC 61056-1:2012	No deformation, damage or leakage U=13.16V		
	Specific requirements: During the test according to 7.12, terminal voltage shall be not less than nominal voltage. The battery shall be free from cracks and liquid leakage when inspected visually. Thedeformations shall not exceed the range of dimensions given in Table 1 and Table 2 of IEC 61056-2:2011.		Ρ	
8	7.13 Shock resistant characteristics			
	The test methods are according to clause 7.13.1 to 7.13.2 which are stated in the standard IEC 61056-1:2012	No deformation, damage or leakage U=13.20V	Ρ	
	Specific requirements: During the test according to 7.13, terminal voltage shall be not less than nominal voltage. The battery shall be free from cracks and liquid leakage when inspected visually. Thedeformations shall not exceed the range of dimensions given in Table 1 and Table 2 of IEC 61056-2:2011.			

TEST RESULT

Item	IEC 61056-2:2012	Result - Remark	Verdict		
9	4 Dimensions				
	The standardized battery dimensions are listed in the standard IEC 61056-2:2012, tables 1 and 2, together with nominal voltage, configuration, and capacity.	Length: 151mm Width: 65mm Height: 100mm	Ρ		
10	5 Terminals				
	Terminal types and dimensions are depicted in the standard IEC 61056-2:2012, Figures 3, 4, 5, 6 and 7.	Compliance	Ρ		
	6 Marking	-			
11	6.1 Marking of polarity				
	The polarity shall be marked by the symbol of "+" on the positive pole and "-" on the negative pole. The case where the battery carries a marking of polarity of both terminals by the color of the lead wire connected to the battery shall be as specified in IEC 60445.	Compliance	Ρ		
12	6.2 Marking items				
12	The marking contains the minimum information which has to be supplied with the battery. The following information shall be clearly and permanently marked on each battery: a) supplier's or manufacturer's name or trade mark; b) type designation or product name; NOTE The standardized type designation is a mnemonic term to define the batteries covered under this standard. c) nominal voltage (n × 2,0 V); d) rated capacity C20; e) polarity; f) date of manufacture, its abbreviation or code; g) safety symbols according to national or international standards; h) recycling symbol (see IEC 61429).	Compliance	Ρ		

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Report No. : HST201906-09962-WT



Report Statement

- 1. Thistest report is invalid ifaltered, additions and deletions.
- 2. Thistest report is responsible for tested samples only .
- 3.Objections to the test report must be submitted to Guangdong HuesentTesting & Inspection Technology Co., Ltd. within 15 days.
- 4. The test report is invalid without the signatures of tester, reviewer ,approver ,and official stamp of test unit.
- Without permission of Guangdong Huesent Testing & Inspection Technology Co., Ltd., This report is not permitted to be duplicated in extracts.
- 6."P"=Pass=Test item conform to the requirement
 - "F"= Fail=Test item not conform to the requirement

"N"= Not Applicable =Test item Not Applicable to the test object

