



中国认可
国际互认
检测
TESTING
CNAS L2885



TEST REPORT

Report No.:	HST202104-03959-WT
Sample Description.....:	Valve Regulated Lead Acid Battery/Gel Battery
Model.....:	See the Table 1
Assessment Category.:	Entrusted
Applicant.....:	CSPOWER BATTERY TECH CO.,LTD

Guangdong Huesent Testing & Inspection Technology Co., Ltd.



TEST REPORT

Sample Description	Valve Regulated Lead Acid Battery/Gel Battery	Trademark	CSPOWER or CSBattery
Model	See the Table 1	Specification	See the Table 1
Assessment Category	Entrusted	Sample Quantity	2Pieces
Applicant	CSPOWER BATTERY TECH CO.,LTD	Sample Status	The samples are sound, intact and fit for test.
Sample Received Date	2021.04.30	Test Date	2021.04.30-2021.11.12
Manufacturer	CSPOWER BATTERY TECH CO.,LTD		
Address	309, one Dimensional Space, 71 District, Xingdong Community, Xin ' an Street, Bao.an District, Shenzhen, China.		
Factory	CSPOWER BATTERY TECH CO.,LTD		
Address	309, one Dimensional Space, 71 District, Xingdong Community, Xin ' an Street, Bao.an District, Shenzhen, China.		
Test address	Unit 102, 4th Building, HongJi e Valley International Enterprises Port, Tongji West Road, NantouTown, Zhongshan City, Guangdong.		
Test Items	See the reference test result pages.		
Test standard	IEC 61427-1:2013 Secondary cells and batteries for renewable energy storage – General requirements and methods of test –Part 1: Photovoltaic off-grid application IEC 60896-21:2004Stationary lead-acid batteries –Part 21:Valve regulated types – Methods of test IEC 60896-22:2004Stationary lead-acid batteries –Part 22:Valve regulated types – Requirements		
Test Conclusion	The results conform to the requirements of standards with respect to the test items. 		
Remarks	There are fifty models (See the Table 1) for application, shown in this report, with the difference being the outer sizes and capacity. All of the tests were performed on 12V100Ah.		
Tested by : Tony	Sign: <i>Tony</i>	2021.11.12	
Reviewed by: John	Sign: <i>John</i>	2021.11.12	
Approved by: Ben	Sign: <i>Ben</i>	2021.11.12	

Table 1: Models for application			
No.	Models	No.	Models
1	12V100AH	26	12V42AH
2	6V4.0AH	27	12V45AH
3	6V4.5AH	28	12V55AH
4	6V200AH	29	12V60AH
5	6V210AH	30	12V65AH
6	6V220AH	31	12V70AH
7	6V225AH	32	12V75AH
8	6V250AH	33	12V80AH
9	6V310AH	34	12V85AH
10	6V330AH	35	12V90AH
11	6V380AH	36	12V95AH
12	6V400AH	37	12V110AH
13	6V420AH	38	12V120AH
14	12V4.5AH	39	12V130AH
15	12V7AH	40	12V135AH
16	12V7.5AH	41	12V150AH
17	12V9AH	42	12V160AH
18	12V12AH	43	12V180AH
19	12V18AH	44	12V200AH
20	12V20AH	45	12V220AH
21	12V26AH	46	12V250AH
22	12V28AH	47	12V260AH
23	12V35AH	48	12V300AH
24	12V38AH	49	8V170AH
25	12V40AH	50	8V200AH

TEST RESULT

IEC 61427-1:2013			
Items	Requirement – Test	Result - Remark	Verdict
8.1	Capacity test	See the ANNEX A	State the value
	The test methods are according to clause 8.1 which are stated in the standard IEC 61427-1		
8.2	Generic cycling endurance test	Cycles:50 Caf:96.3%	P
	The test methods are according to clause 6.13 which are stated in the standard IEC 60896-21		
	Requirement and application: see table 17 in the standard IEC 60896-22		
8.3	Charge retention test	After a storage period of 6 months at 20 °C to 30 °C ambient air temperature: $C_{if}=86.4\%$	P
	The test methods are according to clause 6.12 which are stated in the standard IEC 60896-21		
	Requirement and application: see table 16 in the standard IEC 60896-22		
8.4	Cycling endurance test in photovoltaic applications (extreme conditions)	Number of completed A+B phase cycle sequences: 3 $C_{10h\ rate}=79.5\%$	P
	The test methods are according to clause 8.4 which are stated in the standard IEC 61427-1		
	The minimum number of completed A+B phase cycle sequences (150 cycles each) shall be not less than 3.		

TEST DATA

ANNEX A: 8.1- Capacity test (12V100AH)					
Capacity Sample No.	C ₁₀ (100Ah)		C ₂₀ (111Ah)		Remark
	C _e (Ah)	%of C ₁₀	C _e (Ah)	%of C ₁₂₀	
1#	101.8	101.8	113.2	102.0	None
2#	101.6	101.6	112.7	101.5	

Photo(s) of the tested samples

12V100AH:



12V100AH:



--End of Report --

Report Statement

1. This test report is invalid if altered, additions and deletions.
2. This test report is responsible for tested samples only .
3. Objections to the test report must be submitted to Guangdong Huesent Testing & 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

