



# Test Report

Project No. : SH10010215-001 A1

Applicant: German Battery Trading GmbH

Date: FEBRUARY 5, 2010

Sample description:

Submitted sample said to be :

Sample Description : AA Alkaline Primary Batteries

Designation : AA (LR6)

Type / Model number : AGFA PHOTO, Kodak, Duracell, SONY, VARTA, Panasonic

Supplier : Not Provided

Buyer : Not Provided

Country of origin : Not Provided

Test Method / Item : 1. IEC 60086-2:2006 (Mod.)  
1.1 Discharge Performance Test: Personal cassette player and tape recorder (Mod.)  
1.2 Discharge Performance Test: Photo flash (Mod.)  
1.3 Discharge Performance Test: Digital still camera (Mod.)

Test Result : See the attached sheets

Remark : This report is a revise report to delete the manufacture name and modify the applicant name.

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TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

Prepared By:

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Albert Shen  
Certification Engineer

Approved By:

*Snake Lin*

Snake Lin  
Technical Supervisor

- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
- The test sample is provided by the applicant, which may not related with the Brand owner.
- This report shall not be reproduced except in full without prior authorization from Intertek Testing Services Shanghai.
- The services are provided subject to the terms and condition of the company, which can be furnished upon request.
- Throughout this report a comma is used as the decimal separator.

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## Result Summary Table:

6 samples for typical use were discharged by the load until end-point voltage in attached table, the average duration was calculated. Detail data refer to attached table:

The sample for each brand was modified from 9 Pcs(standard requirement) to 6 Pcs according to manufacture requirement.

Typical Use	Personal cassette player and tape recorder	Photo flash	Digital still camera
Load	10 Ohm	1000mA	1500mW for 2s then 650mW for 28s
Daily period	1 hr/d	10s on, 50s off for 1h/d	5 min on and 55 min off for 24hr/d
End point (V)	0.9	0.9	1.05
MAD	11.5 h	200 Pulse	40 Pulse

Detail discharge data refer to next page.

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## Detail test Data:

### Personal cassette player and tape recorder:

	AGFA PHOTO	Varta	Panasonic	Kodak	Sony	Duracell
Sample 1	21.8	21.7	19.4	21.0	18.9	23.8
Sample 2	21.5	21.2	19.3	21.2	19.2	24.5
Sample 3	21.6	21.8	19.3	21.0	19.4	23.6
Sample 4	21.7	21.3	19.5	21.0	19.2	22.0
Sample 5	21.9	20.5	19.7	21.0	18.9	23.7
Sample 6	21.6	20.7	19.5	20.0	19.3	21.9
Average (h)	21.7	21.2	19.5	20.9	19.2	23.3
MAD (h)	11.5	11.5	11.5	11.5	11.5	11.5

### Photo flash:

	AGFA PHOTO	Varta	Panasonic	Kodak	Sony	Duracell
Sample 1	532	414	390	355	413	412
Sample 2	534	396	395	354	234	410
Sample 3	531	400	399	404	399	393
Sample 4	532	398	393	390	226	450
Sample 5	527	446	408	409	392	404
Sample 6	526	401	404	350	405	445
Average	530.3	409.2	398.2	377.0	344.8	419.0
MAD	200	200	200	200	200	200

### Digital still camera:

	AGFA PHOTO	Varta	Panasonic	Kodak	Sony	Duracell
Sample 1	107	67	68	63	69	87
Sample 2	97	68	76	56	68	76
Sample 3	119	79	78	64	58	79
Sample 4	99	77	78	64	45	79
Sample 5	89	68	76	58	45	79
Sample 6	97	78	76	56	46	79
Average	101.3	72.8	75.3	60.2	55.2	79.8
MAD	40	40	40	40	40	40

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## Product Photo:

	
AGFA PHOTO	Kodak
	
Duracell	SONY
	
VARTA	Panasonic

\*\*\*\*\* End of Report \*\*\*\*\*