KT south suwon branch UPS batteries (AGM 80-12)

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제품명	소형 AGM 축전지
형식/용량	AGM 12V-80AH
제조회사명	세방전지주식회사
제조년월일	2004. 11. 15
A/S 번호	080-586-6211
내부저항	and the second
콘덕턴스	11
	VT

Sample: Sebang Rocket ES 80-12 AGM(12V 80Ah:Korean Products) 8pcs(2set Serial connection, 1set is 4pcs)+3pcs

- Process: 1. Repowertek visited KT south suwon branch on Aug 24trh 2011 and chose 8pcs batteries as sample. Repowertek charged with the KT style after checking voltage and internal resistance.
 - 2. Checked RC after discharging all of the batteries on Aug 25th 2011. Restored 1se(4pcs) with ZEUS regenerator and charged another set(4pcs) with KT style.
 - 2-1. Decided sample's cut off voltage(10.5V) and discharging current(20.5A per 3hours) after discussed with person in charge of KT. We referred Rocket battery's specification.
 - 2-2. Restored 1,2,3,4 of sample(produced on 2004) with ZEUS regenerator and charged 5,6,7,8 of sample with KT style.
 - 3. Finished the 1st restoration, charging, discharging of 8 samples on Aug 26th. 2011.
 - 4. Finished restoration and discharging of sample 5,6,7,8 (produced on 2005) on Aug 30. 2011.
 - 5. Additionally finished restoration and discharging of 3pcs batteries (Produced on 2005) on Sep 15th. 2011

Results : No.1 sample : 13.23V / 9.206mΩ / RC 2:09 ---> 12.99V / 7.396mΩ / RC 2:41 (ZEUS the 1st restoration figures) No.2 sample : 13.29V / 7.683mΩ / RC 2:06 ---> 13.05V / 6.285mΩ / RC 3:10 (ZEUS the 1st restoration figures) No.3 sample : 13.19V / 9.030mΩ / RC 2:22 ---> 13.11V / 7.009mΩ / RC 3:20 (ZEUS the 1st restoration figures) No.4 sample : 13.24V / 8.683mΩ / RC 2:08 ---> 13.02V / 7.244mΩ / RC 2:43 (ZEUS the 1st restoration figures) No.5 sample : 13.26V / 6.790mΩ / RC 2:44 ---> 13.12V / 5.144mΩ / RC 3:35 (ZEUS the 1st restoration after recharging by KT) No.6 sample : 13.31V / 7.439mΩ / RC 2:37 ---> 13.14V / 5.480mΩ / RC 3:32 (ZEUS the 1st restoration after recharging by KT) No.7 sample : 13.31V / 6.340mΩ / RC 3:10 ---> 13.15V / 5.389mΩ / RC 3:37 (ZEUS the 1st restoration after recharging by KT) No.8 sample : 13.05V / 10.96mΩ / RC 1:00 ---> 13.15V / 10.09mΩ / RC 1:57 (ZEUS the 1st restoration after recharging by KT) No.8 sample No. 09-01 : 12.91V / 7.228mΩ / RC 2:34 ---> 13.07V / 5.439mΩ / RC 3:27 (ZEUS the 1st restoration figures) Addition sample No. 09-03 : 13.04V / 7.313mΩ / RC 2:38 ---> 13.18V / 5.094mΩ / RC 3:33 (ZEUS the 1st restoration figures) Addition sample No. 09-04 : 13.09V / 6.341mΩ / RC 2:57 ---> 13.18V / 5.154mΩ / RC 3:39 (ZEUS the 1st restoration figures)

Remark: - Producing date of No. 5, 6, 7, 8, 09-01, 09-03, 09-04 is faster than sample No.1, 2, 3, 4 and also the initial state of

- sample 5, 6, 7, 8, 09-01, 09-03, 09-04 is better than sample 1, 2, 3, 4.
- Please refer www.gbattery.co.kr for information about sample.
- Used IBEX-2000(Internal Resistance Analyzer) of KT's tester
- Judged No.8 sample as junk battery caused by no good internal state.
- Attached measured figure on next page.



No	1	Model	Rocket ES 80-12 AGM (AGM 80-12) (Produced on 2004)		
Voltage	12 V	Ah	80 A	Restored by	Repowertek Inc.
Cut off Voltage	10.5 V	Discharging Ah	20.5 A (3Hrs)	Checked by	Y. S. Ryu

Date	V	I.R.	RC	Remark
25-Aug-11	13,23	9.206		Initial Meansurement After Charge
25-Aug-11	11.94	18.170	2:09	After Discharging Process
26-Aug-11	12,99	7,396		1st Regeneration (ZBR-201)
26-Aug-11	11.91	17.660	2:41	Discharging After 1st Regeneration

No	2	Model	Rocket ES 80-12	AGM (AGM 80-1)	2) (Produced on 2004)
Voltage	12 V	Ah	80 A	Restored by	Repowertek Inc.
Cut off Voltage	10.5 V	Discharging Ah	20.5 A (3Hrs)	Checked by	Y. S. Ryu
Date	V	I.R.	RC	R	emark
25-Aug-11	13,29	7.683			eansurement r Charge
25-Aug-11	12.04	13.920	2:06	After Disch	narging Process
26-Aug-11	13.05	6,285		1st Regener	ration (ZBR-201)
26-Aug-11	11.78	15.040	3:10		rging After generation

No	3	Model	Rocket ES 80-12 AGM (AGM 80-12) (Produced on 2004)		
Voltage	12 V	Ah	80 A	Restored by	Repowertek Inc.
Cut off Voltage	10.5 V	Discharging Ah	20.5 A (3Hrs)	Checked by	Y. S. Ryu

Date	V	I.R.	RC	Remark
25-Aug-11	13,19	9.030		Initial Meansurement After Charge
25-Aug-11	11.85	19,320	2:22	After Discharging Process
26-Aug-11	13,11	7.009		1st Regeneration (ZBR-201)
26-Aug-11	11.65	16.690	3:20	Discharging After 1st Regeneration

No	4	Model	Rocket ES 80-12	AGM (AGM 80-1)	2) (Produced on 2004)
Voltage	12 V	Ah	80 A	Restored by	Repowertek Inc.
Cut off Voltage	10.5 V	Discharging Ah	20.5 A (3Hrs)	Checked by	Y. S. Ryu
Date	V	I.R.	RC	R	emark
25-Aug-11	13.24	8,683			eansurement r Charge
25-Aug-11	11.98	17.370	2:08	After Disch	narging Process
26-Aug-11	13.02	7.244		1st Regenei	ration (ZBR-201)
26-Aug-11	11.94	16.970	2:43	Discharging After 1st Regeneration	

No	5	Model	Rocket ES 80-12 AGM (AGM 80-12) (Produced on 2005)		
Voltage	12 V	Ah	80 A	Restored by	Repowertek Inc.
Cut off Voltage	10.5 V	Discharging Ah	20.5 A (3Hrs)	Checked by	Y. S. Ryu

Date	V	I.R.	RC	Remark
25-Aug-11	13,26	6.790		Initial Meansurement After Charge (1st)
25-Aug-11	11.76	14.380	2:44	After Discharging Process
26-Aug-11	13.04	6,793		2nd Charge
26-Aug-11	11,83	15,360	2:22	After Discharging Process
30-Aug-11	13,12	5.144		1st Regeneration (ZBR-201)
30-Aug-11	11.61	12.610	3:35	Discharging After 1st Regeneration

No	6	Model	Rocket ES 80-12	AGM (AGM 80-1)	2) (Produced on 2005)
Voltage	12 V	Ah	80 A	Restored by	Repowertek Inc.
Cut off Voltage	10.5 V	Discharging Ah	20.5 A (3Hrs)	Checked by	Y. S. Ryu
Date	V	I.R.	RC	R	emark
25-Aug-11	13,31	7.439			eansurement Charge (1st)
25-Aug-11	11.85	16.220	2:37	After Disch	narging Process
26-Aug-11	13.1	7.392		2nd	l Charge
26-Aug-11	11.83	15,350	2:27	After Discharging Process	
30-Aug-11	13,14	5,480		1st Regenei	ration (ZBR-201)
30-Aug-11	11.67	13.220	3:32		rging After generation

No	7	Model	Rocket ES 80-12 AGM (AGM 80-12) (Produced on 2005		
Voltage	12 V	Ah	80 A	Restored by	Repowertek Inc.
Cut off Voltage	10.5 V	Discharging Ah	20.5 A (3Hrs)	Checked by	Y. S. Ryu

Date	V	I.R.	RC	Remark
25-Aug-11	13,31	6.340		Initial Meansurement After Charge (1st)
25-Aug-11	11,76	12,490	3:10	After Discharging Process
26-Aug-11	13.06	6.649		2nd Charge
26-Aug-11	11,78	14.240	2:32	After Discharging Process
30-Aug-11	13,15	5,389		1st Regeneration (ZBR-201)
30-Aug-11	11.56	12.480	3:37	Discharging After 1st Regeneration

No	8	Model	Rocket ES 80-12	AGM (AGM 80-1	2) (Produced on 2005)
Voltage	12 V	Ah	80 A	Restored by	Repowertek Inc.
Cut off Voltage	10.5 V	Discharging Ah	20.5 A (3Hrs)	Checked by	Y. S. Ryu
Date	V	I.R.	RC	R	emark
25-Aug-11	13.05	10.960			eansurement Charge (1st)
25-Aug-11	12.33	17.620	1:00	After Disch	narging Process
26-Aug-11	13.37	9.576		2nd	l Charge
26-Aug-11	12.31	15,500	1:43	After Disch	narging Process
30-Aug-11	13,15	10,090		1st Regenei	ration (ZBR-201)
30-Aug-11	12,29	15,480	1:57		rging After generation

No	09-01	Model	Rocket ES 80-12	AGM (AGM 80-1	2) (Produced on 2005)
Voltage	12 V	Ah	80 A	Restored by	Repowertek Inc.
Cut off Voltage	10.5 V	Discharging Ah	20.5 A (3Hrs)	Checked by	Y. S. Ryu

Date	V	I.R.	RC	Remark
14-Sep-11	12,91	7,228		KT 초기 충전값
15-Sep-11	11.74	16.520	2:34	초기 방전값
15-Sep-11	13.07	5.439		ZBR-201 복원
15-Sep-11			3:27	ZBR-201 복원 후 방전값

Regeneration Report for UPS Battery(AGM) in Korea						
No	09-03	Model	Rocket ES 80-12	Rocket ES 80-12 AGM (AGM 80-12) (Produced on 2005		
Voltage	12 V	Ah	80 A	Restored by	Repowertek Inc.	
Cut off Voltage	10,5 V	Discharging Ah	20.5 A (3Hrs)	Checked by	Y. S. Ryu	
Date	V	I.R.	RC	R	emark	
14-Sep-11	13.04	9.477		KT 초	기 충전값	
15-Sep-11	11.76	17.530	2:38	초기	방전값	
15-Sep-11	13.18	5.094		ZBR-	·201 복원	
15-Sep-11			3:33	ZBR-201	복원 후 방전값	

No	09-04	Model	Rocket ES 80-12	AGM (AGM 80-1	2) (Produced on 2005)
Voltage	12 V	Ah	80 A	Restored by	Repowertek Inc.
Cut off Voltage	10.5 V	Discharging Ah	20.5 A (3Hrs)	Checked by	Y. S. Ryu

Date	V	I.R.	RC	Remark
14-Sep-11	13.09	6,341		Initial Meansurement After Charge
15-Sep-11	11.68	14.990	2:57	After Discharging Process
15-Sep-11	13,18	5.154		1st Regeneration (ZBR-201)
15-Sep-11			3:39	Discharging After 1st Regeneration

No	Model		
Voltage	Ah	Restored by	
Cut off Voltage	Discharging Ah	Checked by	

Date	V	I.R.	RC	Remark