RMX 12-2.3

REMCO

Specification

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	2.3Ah@20hour-rate to 1.75V per cell @25℃
Weight	Approx. 0.97 Kg (Tolerance±5.0%)
Internal Resistance	Approx. 50 mΩ
Terminal	F1
Max. Discharge Current	23A (5 sec)
Short Circuit Current	120A
Design Life	6~8 years (Float charging)
Recommended Maximum Charging Current	0.69 A
Reference Capacity	C3 1.79AH C5 2.06AH C10 2.16AH C20 2.32AH
Standby Use Voltage	13.7 V~13.9 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -20℃~60℃ Charge: 0℃~50℃ Storage: -20℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25℃ and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25℃.Please charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

RMX series is a general purpose battery with 6~8 years design life in float service. It meets with IEC, JIS, BS and YDT standards. With advanced AGM valve regulated technology and high purity raw material, the RMX series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, Telecom, power grid, medical equipment, emergency light and security system applications.

Dimensions

F1 Terminal

Length	177±1.5mm (6.97 inches)
Width	35±1.5mm (1.38 inches)
Height	62±1.5mm (2.44 inches)
Total Height	68±1.5mm (2.68 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

Constant Current Discharge Characteristics : A (25℃)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	9.119	5.947	4.387	2.539	1.467	0.866	0.629	0.501	0.423	0.283	0.230	0.120
1.65V	8.790	5.770	4.272	2.483	1.440	0.853	0.621	0.495	0.418	0.280	0.228	0.119
1.70V	8.361	5.538	4.121	2.410	1.404	0.836	0.610	0.487	0.412	0.276	0.225	0.118
1.75V	7.810	5.237	3.924	2.313	1.357	0.814	0.595	0.476	0.403	0.271	0.221	0.116
1.80V	7.116	4.852	3.671	2.188	1.295	0.784	0.576	0.461	0.392	0.264	0.216	0.114
1.85V	6.262	4.372	3.352	2.028	1.215	0.746	0.550	0.442	0.377	0.255	0.209	0.111

Constant Power Discharge Characteristics : WPC (25℃)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	15.70	10.26	7.79	4.68	2.78	1.67	1.22	0.98	0.83	0.56	0.46	0.24
1.65V	15.53	10.22	7.74	4.65	2.76	1.65	1.21	0.97	0.82	0.56	0.46	0.24
1.70V	14.94	9.92	7.53	4.53	2.70	1.63	1.19	0.96	0.81	0.55	0.45	0.24
1.75V	14.21	9.55	7.28	4.40	2.62	1.59	1.17	0.94	0.80	0.54	0.44	0.23
1.80V	13.17	9.00	6.90	4.20	2.52	1.54	1.13	0.91	0.78	0.53	0.43	0.23
1.85V	11.79	8.25	6.39	3.93	2.38	1.47	1.09	0.88	0.75	0.51	0.42	0.22

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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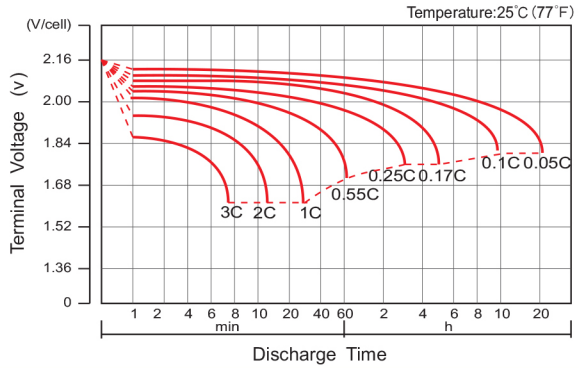
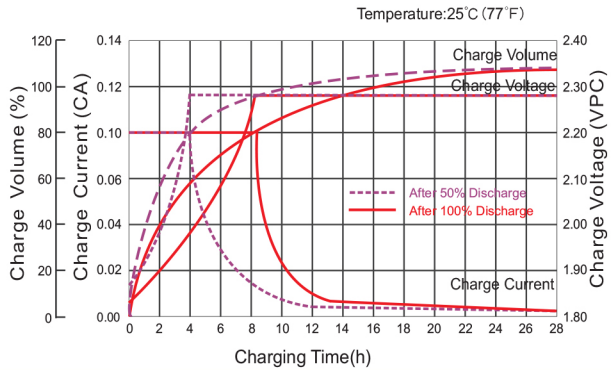
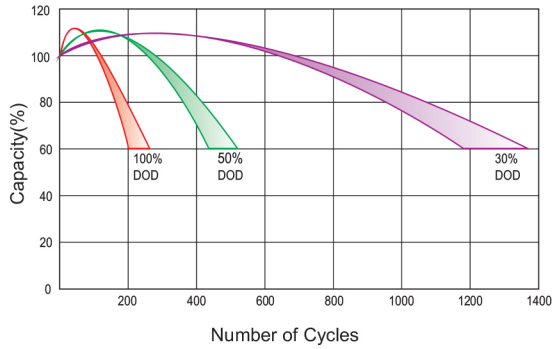
Discharge Characteristics Curve



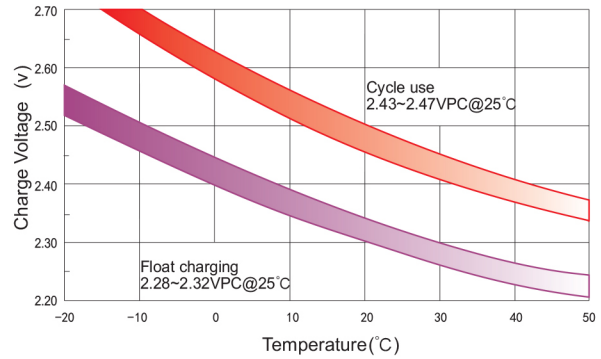
Charge Characteristic Curve For Standby Use



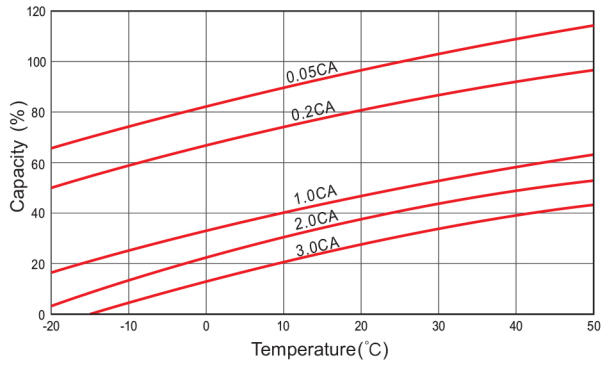
Cycle Life In Relation To Depth Of Discharge



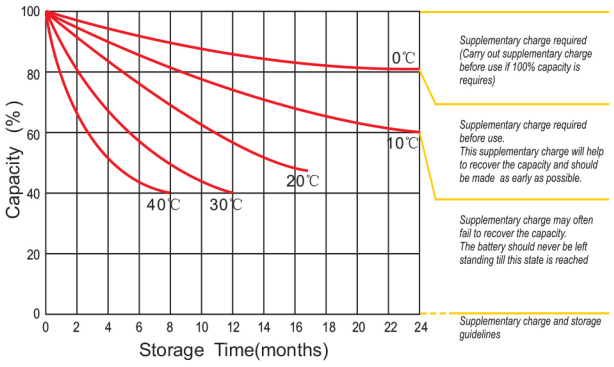
Relationship Between Charging Voltage And Temperature



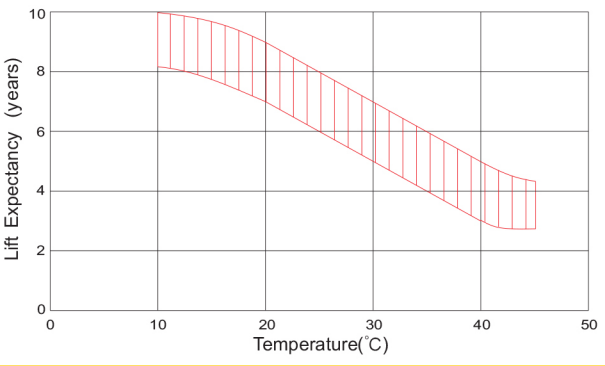
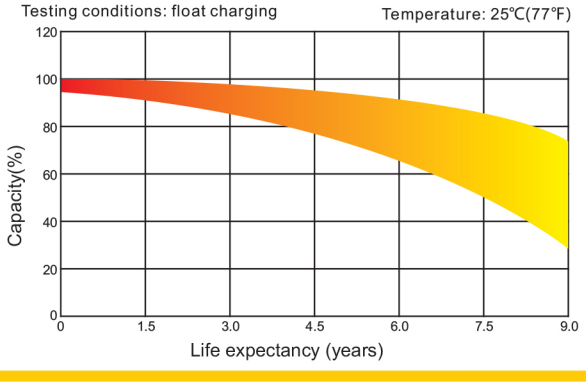
Temperature Effects On Capacity



Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use