ROVON POWER

RoveAGM

RA12-24

12V 24Ah

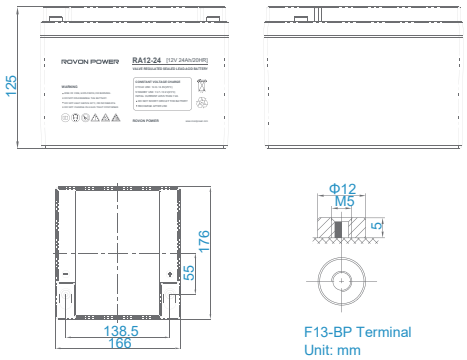
AGM Valve Regulated Lead Acid Battery

RoveAGM series is a general purpose battery with 8 years design life in float service. It meets with IEC, JIS, BS, GB/T and YD/T standards. With advanced AGM valve regulated technology and high purity raw material, the RoveAGM 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.



Specification	
Cells Per Unit	6
Voltage Per Unit	12
Capacity	24Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 7.00kg (Tolerance ±3.0%)
Internal Resistance	Approx. 16mΩ
Terminal	F3(M5) / F13-BP(M5)
Max. Discharge Current	240A (5 sec)
Short Circuit Current	850A
Design Life	8 years (Float charging)
Maximum Charging Current	7.2 A
Reference Capacity	C3 18.6Ah C5 20.9Ah C10 22.4Ah C20 24.0Ah
Standby Use Voltage	13.7V~13.9V @25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6V~14.8V @25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ± 5°C
Self Discharge	ROVON Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional

Dimensions



Length
166±1.5mm (6.54 inches)

Width
176±1.5mm (6.93 inches)

Height
125±1.5mm (4.92 inches)

Total Height
125±1.5mm (4.92 inches)

Terminal M5 Value
6-7 N*m

Terminal M6 Value
8-10 N*m

Terminal M8 Value
10-12 N*m

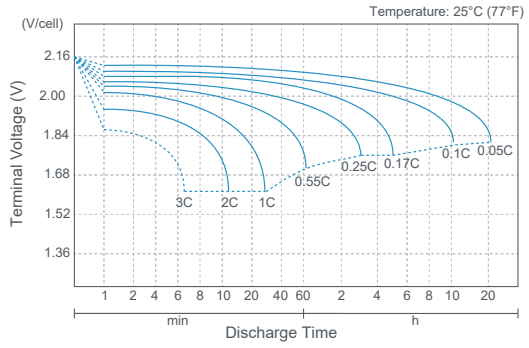
Constant Current Discharge Characteristics: A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	86.51	61.14	44.19	25.38	13.93	9.003	6.768	5.464	4.527	2.914	2.367	1.250
1.65V	80.44	57.77	42.25	24.37	13.45	8.716	6.559	5.316	4.410	2.881	2.338	1.230
1.70V	72.58	53.19	39.57	23.29	13.01	8.429	6.381	5.172	4.295	2.837	2.302	1.215
1.75V	65.03	48.68	36.83	22.26	12.54	8.134	6.190	5.039	4.187	2.797	2.272	1.200
1.80V	57.10	44.07	34.00	21.28	12.06	7.843	5.999	4.895	4.079	2.750	2.243	1.188
1.85V	45.32	36.02	28.22	18.33	10.82	7.186	5.546	4.549	3.804	2.581	2.112	1.128

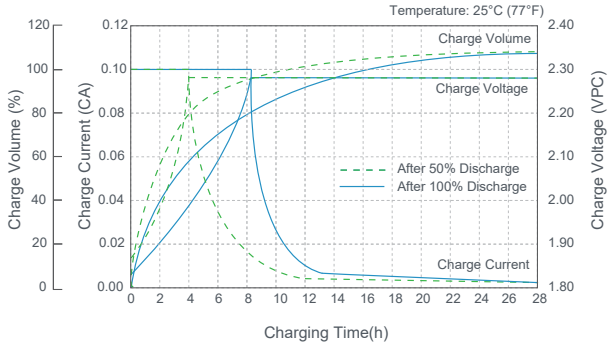
Constant Power Discharge Characteristics: W/cell (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	143.4	103.9	77.26	46.10	26.18	17.06	12.93	10.49	8.727	5.691	4.652	2.460
1.65V	134.9	100.1	74.96	44.73	25.42	16.60	12.58	10.24	8.532	5.638	4.602	2.425
1.70V	124.5	93.84	71.26	43.18	24.75	16.14	12.29	10.00	8.339	5.564	4.538	2.399
1.75V	114.0	87.44	67.27	41.70	23.99	15.65	11.98	9.784	8.157	5.498	4.484	2.372
1.80V	102.2	80.54	63.00	40.26	23.21	15.17	11.65	9.537	7.975	5.417	4.432	2.352
1.85V	82.85	66.99	53.02	35.02	20.94	13.97	10.82	8.899	7.462	5.097	4.179	2.236

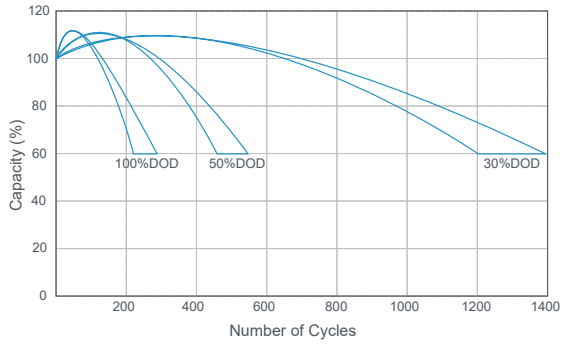
Discharge Characteristics Curve



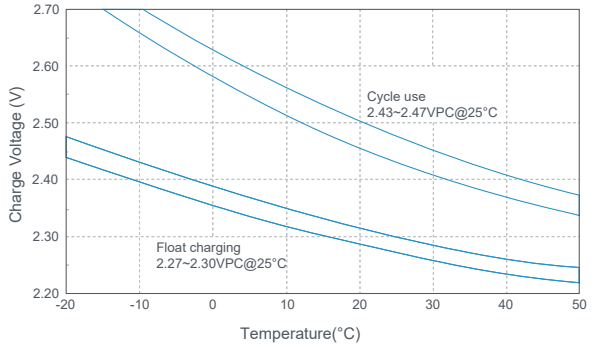
Charge Characteristic Curve for Standby Use



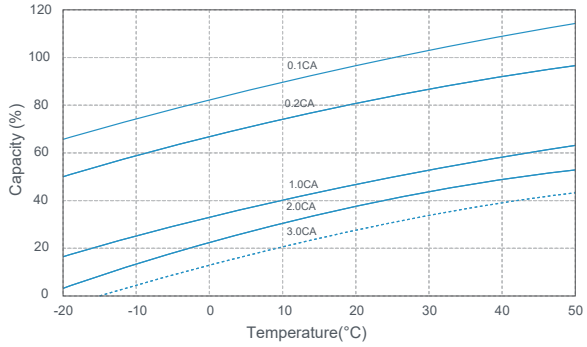
Cycle Life in Relation to Depth of Discharge



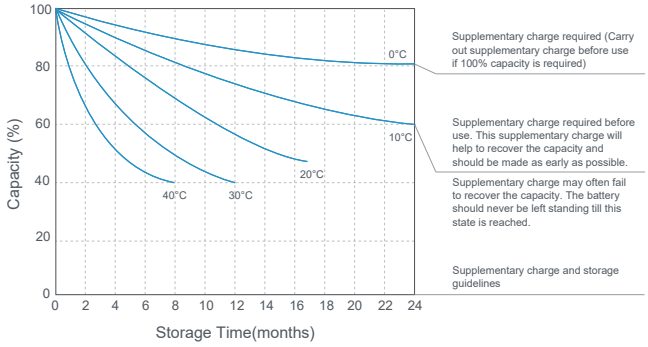
Relationship Between Charging Voltage and Temperature



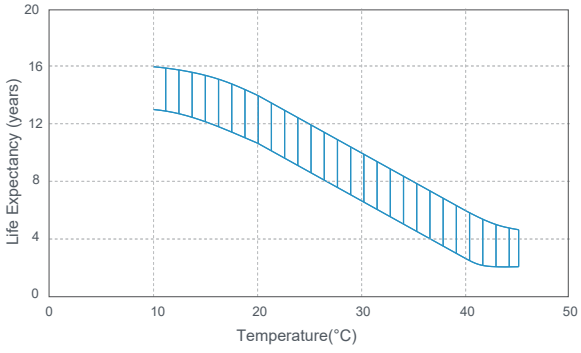
Temperature Effects on Capacity



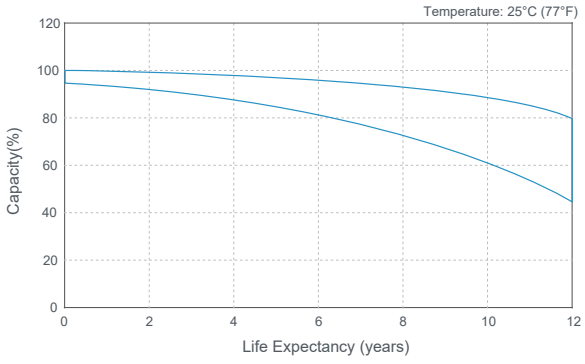
Storage Characteristics



Effect of Temperature on Long Term Life



Life Characteristics Of Standby Use



Specifications are subject to change without prior notice. ROVON reserves the right to interpret and update this information.