ROVON POWER

RoveAGM

RA12-45

12V 45Ah



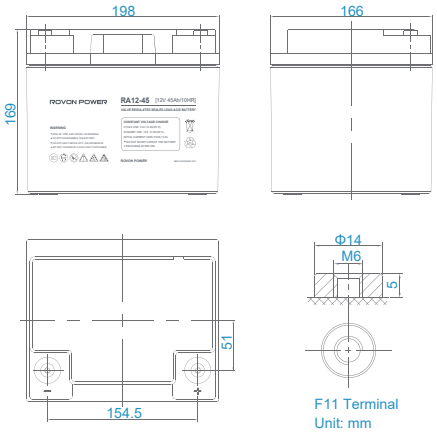
AGM Valve Regulated Lead Acid Battery

RoveAGM series is a general purpose battery with 12 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	45Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 12.5kg (Tolerance ±3.0%)
Internal Resistance	Approx. 9.0mΩ
Terminal	F4(M6) / F11(M6)
Max. Discharge Current	450A (5 sec)
Short Circuit Current	1050A
Design Life	12 years (Float charging)
Maximum Charging Current	13.5 A
Reference Capacity	C3 34.8Ah C5 39.3Ah C10 45.0Ah C20 47.6Ah
Standby Use Voltage	13.6V~13.8V @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
198±2mm (7.80 inches)

Width
166±2mm (6.54 inches)

Height
169±2mm (6.65 inches)

Total Height
169±2mm (6.65 inches)

Terminal M5 Value
6-7 N*m

Terminal M6 Value
8-10 N*m

Terminal M8 Value
10-12 N*m

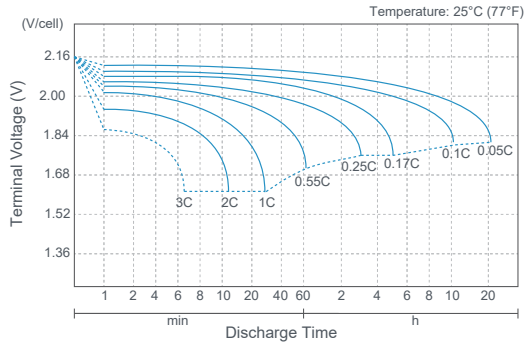
Constant Current Discharge Characteristics: A (25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	109.8	83.4	49.3	27.5	16.4	12.7	9.98	8.49	5.71	4.75	2.48
1.65V	103.8	79.8	47.3	26.6	15.9	12.3	9.71	8.27	5.64	4.69	2.44
1.70V	95.5	74.7	45.2	25.7	15.3	12.0	9.44	8.05	5.55	4.62	2.41
1.75V	87.5	69.5	43.2	24.7	14.8	11.6	9.20	7.85	5.48	4.56	2.38
1.80V	79.2	64.2	41.3	23.8	14.3	11.3	8.94	7.65	5.38	4.50	2.36
1.85V	64.7	53.3	35.6	21.3	13.1	10.4	8.31	7.13	5.05	4.24	2.24

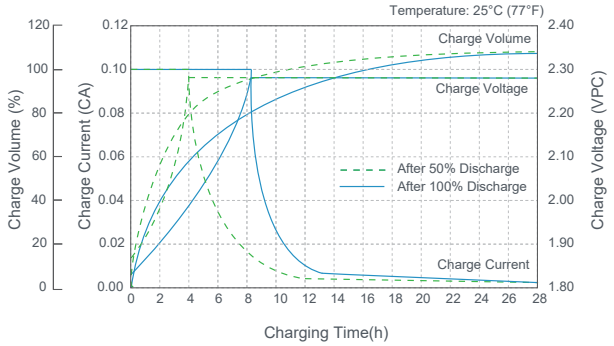
Constant Power Discharge Characteristics: W/cell (25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	186.7	145.9	89.5	51.7	31.0	24.2	19.2	16.4	11.1	9.33	4.89
1.65V	179.8	141.5	86.8	50.2	30.2	23.6	18.7	16.0	11.0	9.23	4.82
1.70V	168.6	134.5	83.8	48.9	29.4	23.1	18.3	15.6	10.9	9.10	4.77
1.75V	157.1	127.0	80.9	47.4	28.5	22.5	17.9	15.3	10.8	9.00	4.71
1.80V	144.7	118.9	78.1	45.8	27.6	21.9	17.4	15.0	10.6	8.89	4.67
1.85V	120.3	100.1	68.0	41.3	25.4	20.3	16.2	14.0	9.98	8.38	4.44

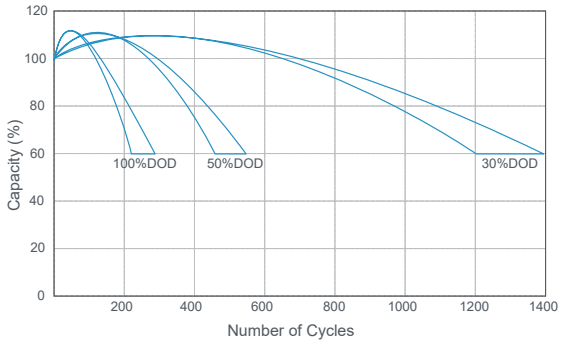
Discharge Characteristics Curve



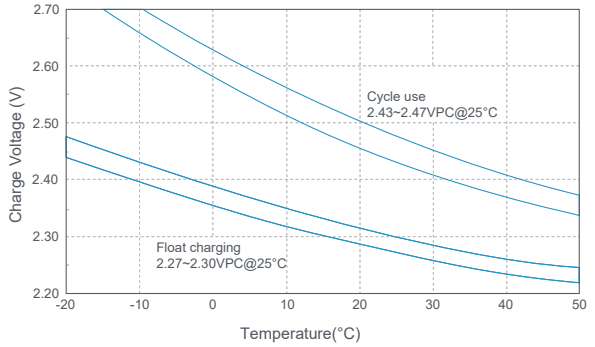
Charge Characteristic Curve for Standby Use



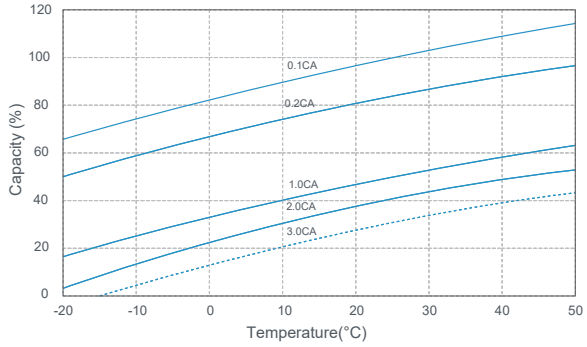
Cycle Life in Relation to Depth of Discharge



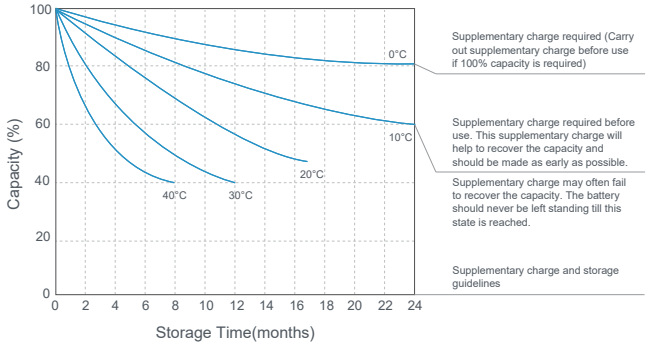
Relationship Between Charging Voltage and Temperature



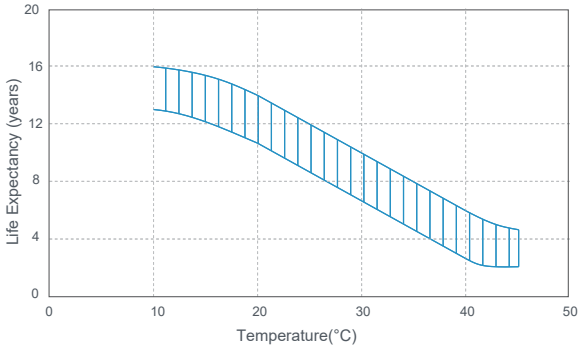
Temperature Effects on Capacity



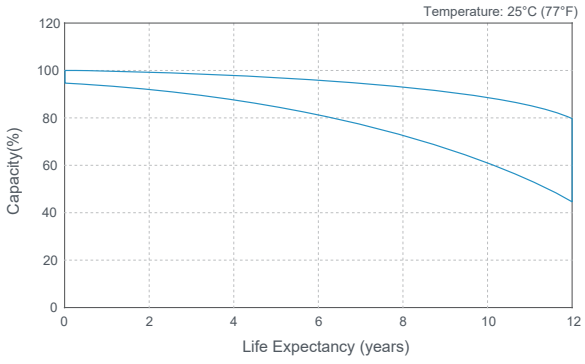
Storage Characteristics



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.