ROVON POWER

RoveAGM

RA12-120

12V 120Ah

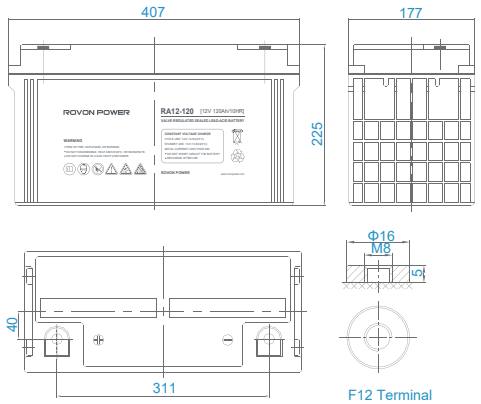
AGM Valve Regulated Lead Acid Battery

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	120Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 32.5kg (Tolerance ±3.0%)
Internal Resistance	Approx. 5.5mΩ
Terminal	F5(M8) / F12(M8)
Max. Discharge Current	1200A (5 sec)
Short Circuit Current	2220A
Design Life	12 years (Float charging)
Maximum Charging Current	36.0 A
Reference Capacity	C3 93.0Ah C5 104.5Ah C10 120.0Ah C20 126.0Ah
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
407±2mm (16.0 inches)

Width
177±2mm (6.97 inches)

Height
225±2mm (8.86 inches)

Total Height
225±2mm (8.86 inches)

Terminal M5 Value
6-7 N*m

Terminal M6 Value
8-10 N*m

Terminal M8 Value
10-12 N*m

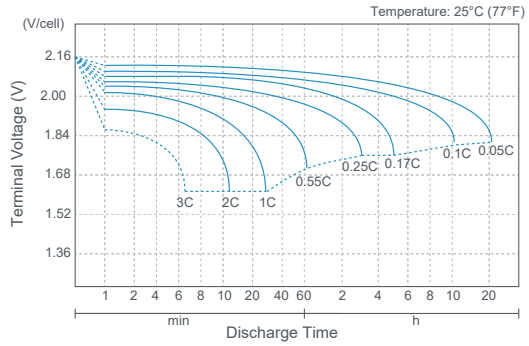
Constant Current Discharge Characteristics: A (25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	272.7	216.5	130.1	73.3	43.7	33.8	26.6	22.6	15.2	12.7	6.62
1.65V	257.7	207.0	124.9	70.8	42.3	32.8	25.9	22.1	15.0	12.5	6.52
1.70V	237.2	193.9	119.4	68.5	40.9	31.9	25.2	21.5	14.8	12.3	6.44
1.75V	217.1	180.4	114.1	66.0	39.5	31.0	24.5	20.9	14.6	12.2	6.36
1.80V	196.5	166.6	109.1	63.5	38.1	30.0	23.8	20.4	14.4	12.0	6.30
1.85V	160.6	138.2	93.9	56.9	34.9	27.7	22.1	19.0	13.5	11.3	5.98

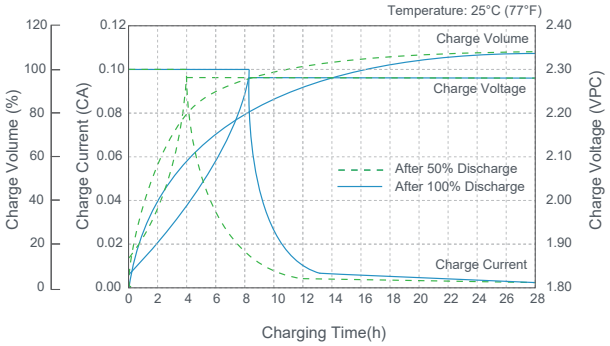
Constant Power Discharge Characteristics: W/cell (25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	463.5	378.5	236.3	137.8	82.8	64.6	51.1	43.6	29.7	24.9	13.0
1.65V	446.4	367.2	229.2	133.8	80.5	62.9	49.9	42.7	29.4	24.6	12.9
1.70V	418.5	349.1	221.3	130.3	78.3	61.5	48.7	41.7	29.1	24.3	12.7
1.75V	390.0	329.6	213.7	126.3	75.9	59.9	47.6	40.8	28.7	24.0	12.6
1.80V	359.2	308.6	206.3	122.1	73.6	58.3	46.4	39.9	28.3	23.7	12.5
1.85V	298.8	259.7	179.5	110.2	67.8	54.1	43.3	37.3	26.6	22.4	11.8

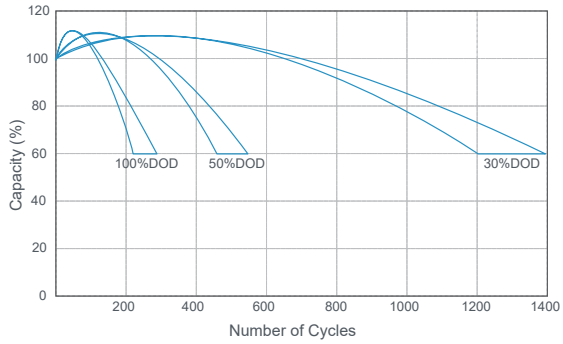
Discharge Characteristics Curve



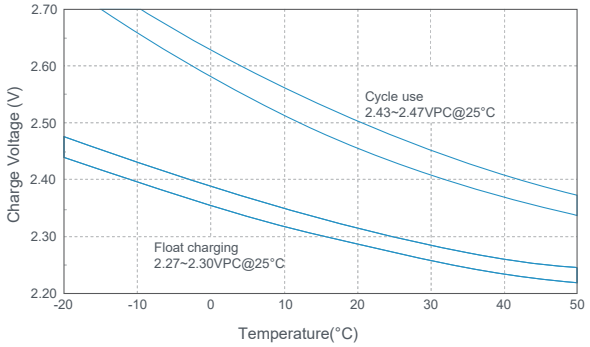
Charge Characteristic Curve for Standby Use



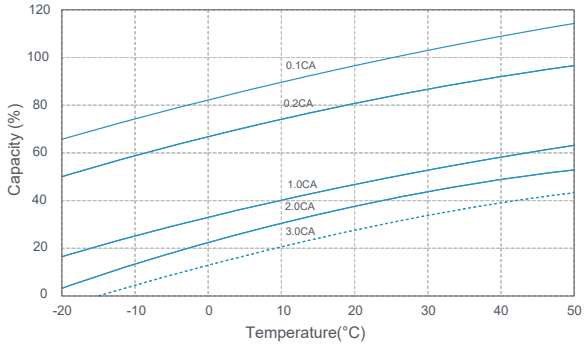
Cycle Life in Relation to Depth of Discharge



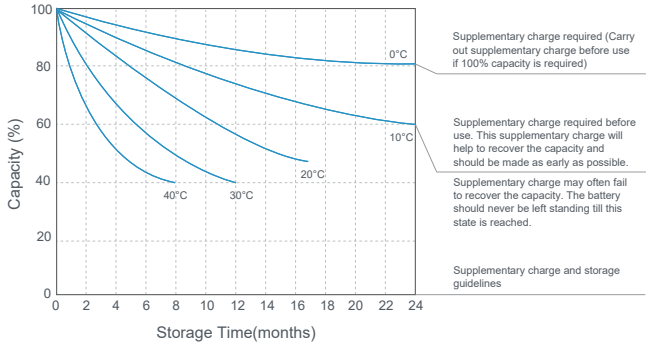
Relationship Between Charging Voltage and Temperature



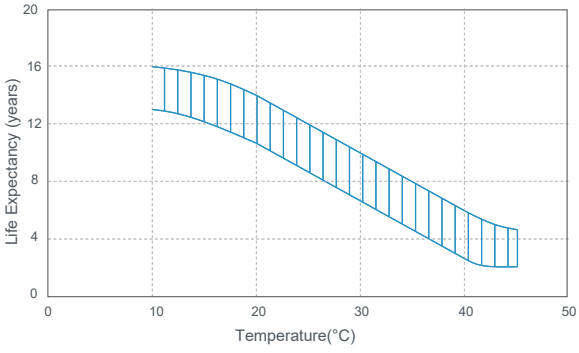
Temperature Effects on Capacity



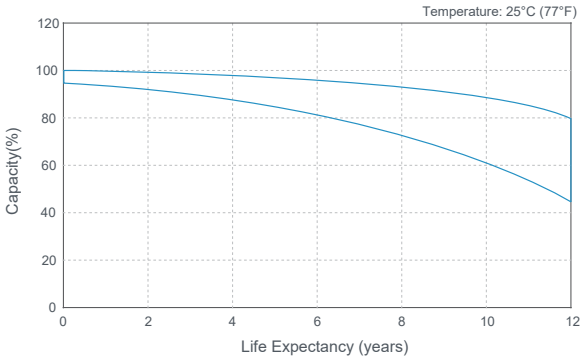
Storage Characteristics



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.