

Specification

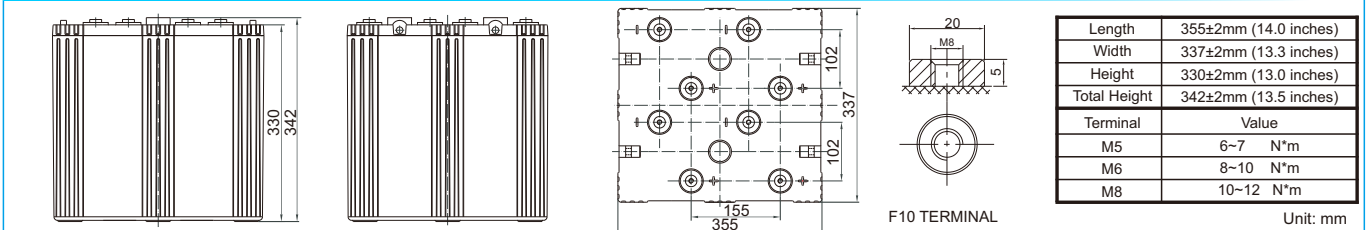
Cells Per Unit	1
Voltage Per Unit	2
Capacity	1500Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 91.0 Kg (Tolerance ±3%)
Internal Resistance	Approx. 0.5 mΩ
Terminal	F10(M8)
Max. Discharge Current	6000A (5 sec)
Design Life	20 years (floating charge)
Max. Charging Current	300.0 A
Reference Capacity	C1 916.5Ah C3 1161.0Ah C5 1308.5Ah C10 1500.0Ah
Float Charging Voltage	2.27 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.43 V~2.47 V @ 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	MAGNIZON 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.



MC (AGM Deep Cycle) series batteries provide superior high integrity and reliability. It is specially designed for frequent cyclic charge and discharge. By using strong grids, thick plate and specially active material are designed for repeated deep-discharge applications. The MC series batteries offer 30% more cyclic life than the standby series. It is suitable for solar and wind renewable energy storage, mobility and medical equipment, V, telecom, broadband and cable TV, UPS systems etc.

ISO 9001	ISO 14001	
CE	RoHS	OHSAS 18001

Dimensions



Constant Current Discharge Characteristics : A(25°C)

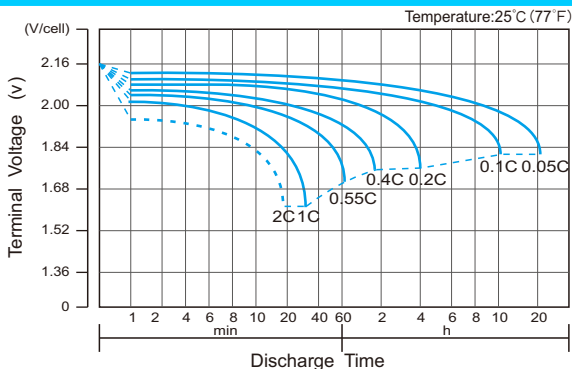
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	1436	916.5	553.1	423.1	333.8	283.0	186.4	158.2
1.65V	1379	885.1	535.5	410.0	324.7	275.6	184.3	156.3
1.70V	1318	856.3	517.8	398.9	315.9	268.5	181.4	154.0
1.75V	1260	825.0	499.7	387.0	307.8	261.7	178.9	151.9
1.80V	1204	793.4	481.8	375.0	299.0	255.0	175.9	150.0
1.85V	1037	711.6	441.5	346.7	277.9	237.8	165.1	141.2

Constant Power Discharge Characteristics : WPC(25°C)

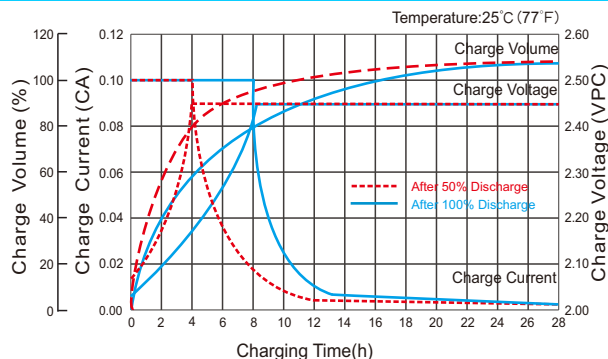
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	2609	1722	1048	808.1	640.7	545.5	364.0	311.1
1.65V	2531	1673	1020	786.4	625.7	533.3	360.7	307.7
1.70V	2443	1628	991.6	768.4	611.0	521.3	355.9	303.5
1.75V	2359	1578	961.4	748.7	597.6	509.9	351.7	299.8
1.80V	2278	1527	931.7	728.4	582.6	498.5	346.5	296.4
1.85V	1981	1378	858.3	676.4	543.5	466.4	326.0	279.4

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.
The battery must be fully charged before the capacity test. The C₁₀ should reach 95% after the first cycle and 100% after the third cycle.

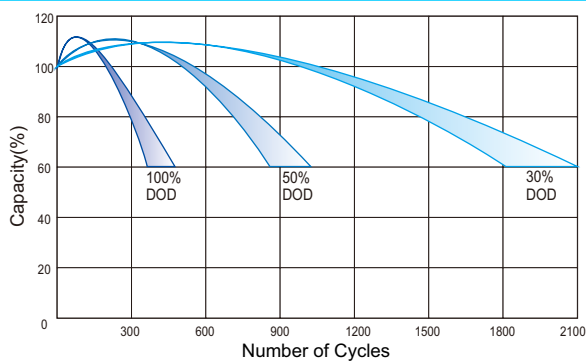
Discharge Characteristics Curve



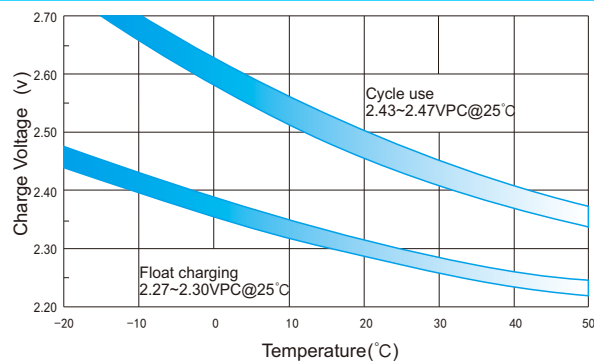
Charge Characteristic Curve for Cycle Use(IU)



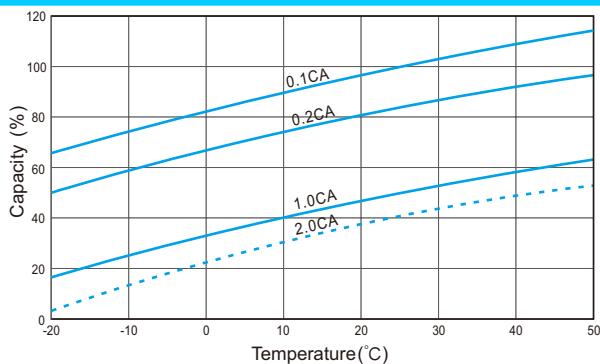
Cycle Life in Relation to Depth of Discharge



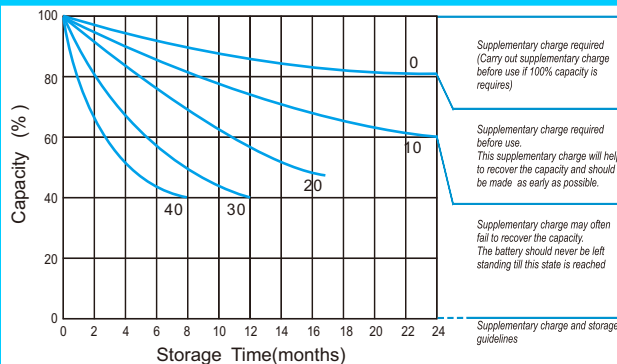
Relationship Between Charging Voltage and Temperature



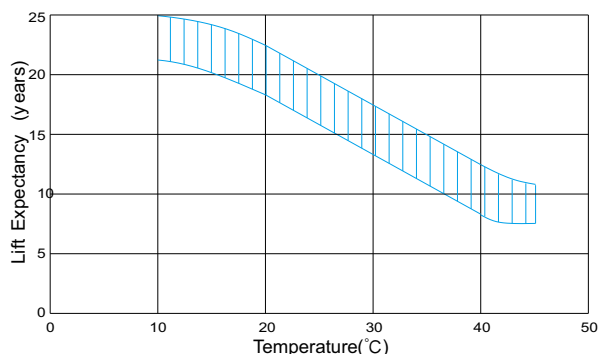
Temperature Effects on Capacity



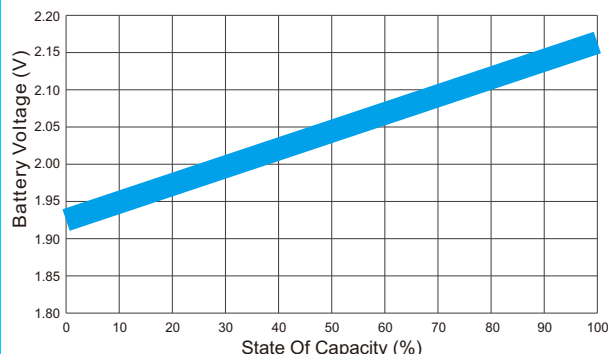
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20°C)



(Note) All above information shall be changed without prior notice, MAGNIZON reserves the right to explain and update the latest information

MAGNIZON MC BATTERIES

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specification are subject to modification without notice. Contact Magnizon for the latest information.