

DC2-2000 (2V2000Ah)



Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	2000Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 116.0 Kg (Tolerance ±3%)
Internal Resistance	Approx. 0.4 mΩ
Terminal	F10(M8)
Max. Discharge Current	7000A (5 sec)
Design Life	20 years (floating charge)
Max. Charging Current	400.0 A
Reference Capacity	C1 1222.0Ah C3 1548.0Ah C5 1745.0Ah C10 2000.0Ah
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	RITAR 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 charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



DC (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 DC 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



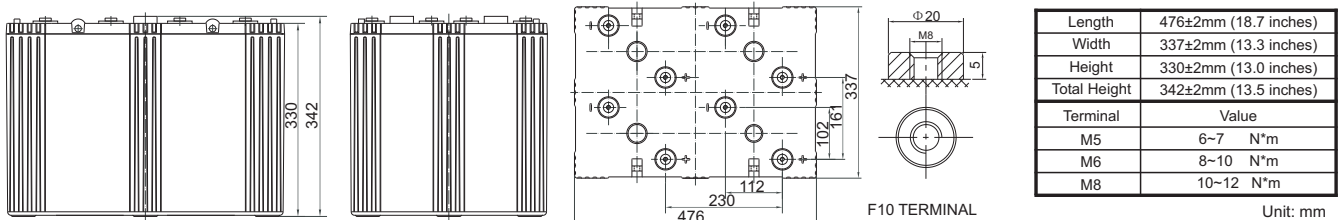
OHSAS 18001



MH 28539



Dimensions



Constant Current Discharge Characteristics : A(25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	1915	1222	752.5	564.1	454.1	377.3	253.6	211.0
1.65V	1838	1180	728.5	546.7	441.8	367.5	250.7	208.4
1.70V	1757	1142	704.5	531.8	429.8	358.0	246.9	205.3
1.75V	1680	1100	679.9	516.0	418.8	349.0	243.5	202.6
1.80V	1605	1058	655.6	500.0	406.7	340.0	239.3	200.0
1.85V	1383	948.8	600.7	462.2	378.1	317.0	224.7	188.3

Constant Power Discharge Characteristics : WPC(25°C)

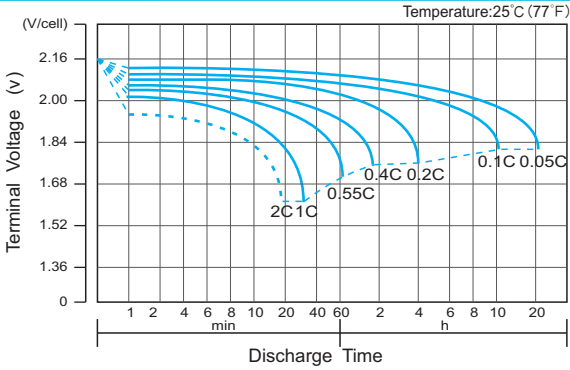
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	3478	2296	1426	1077	871.8	727.3	495.2	414.8
1.65V	3374	2230	1387	1049	851.3	711.1	490.7	410.3
1.70V	3258	2171	1349	1025	831.3	695.0	484.2	404.6
1.75V	3146	2105	1308	998.2	813.1	679.9	478.5	399.8
1.80V	3037	2036	1268	971.2	792.6	664.7	471.4	395.2
1.85V	2642	1837	1168	901.8	739.5	621.9	443.6	372.6

(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.

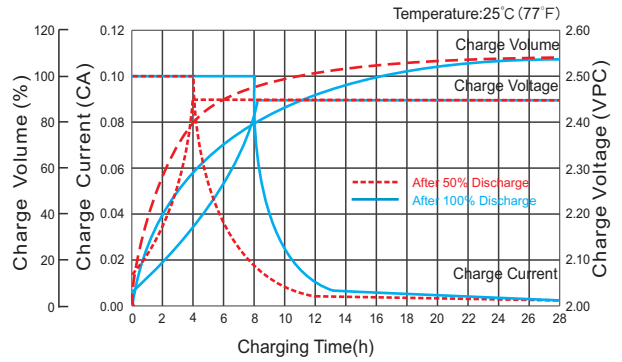
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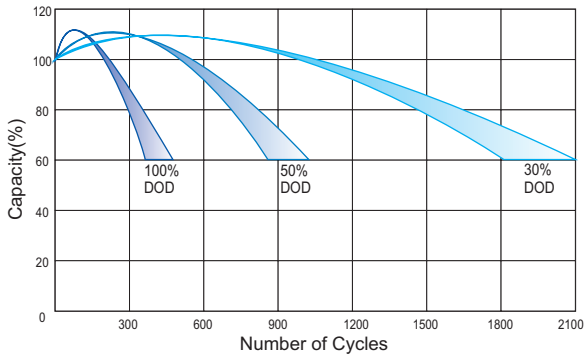
Discharge Characteristics Curve



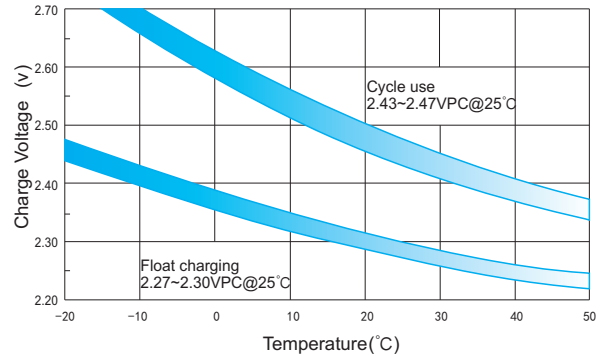
Charge Characteristic Curve for Cycle Use(IU)



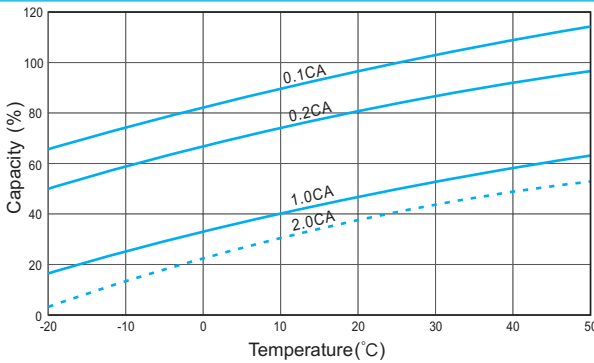
Cycle Life in Relation to Depth of Discharge



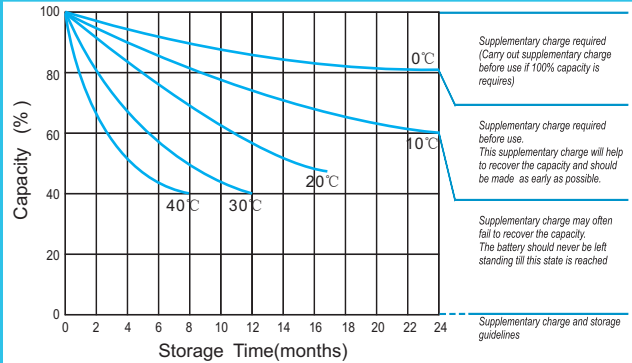
Relationship Between Charging Voltage and Temperature



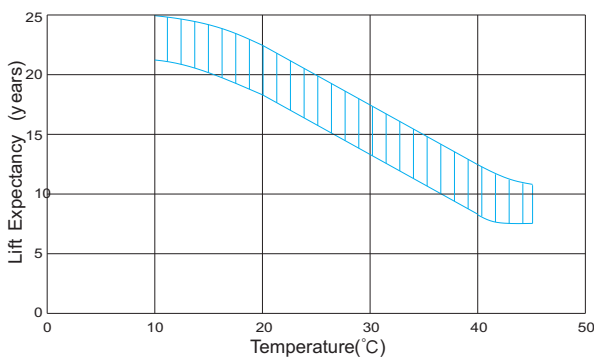
Temperature Effects on Capacity



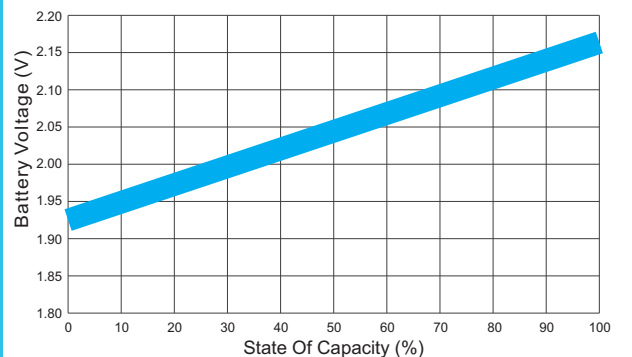
Storage Characteristics



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, Ritar reserves the right to explain and update the latest information.