DC2-1800(2V1800Ah)

RITAR®

Specification

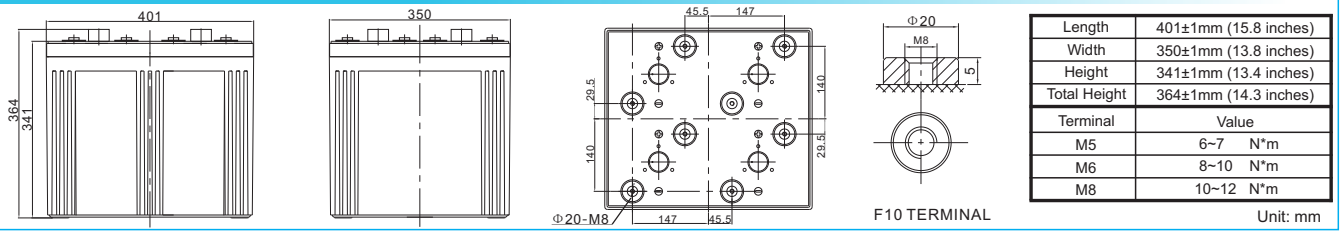
Cells Per Unit	1
Voltage Per Unit	2
Capacity	1800Ah@10hr-rate to 1.80V per cell @25℃
Weight	Approx. 105Kg (Tolerance±1%)
Internal Resistance	Approx. 0.5 mΩ
Terminal	F10(M8)
Max. Discharge Current	7000A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	360 A
Reference Capacity	C1 1101.0AH C3 1408.2AH C5 1584.5AH C10 1801.0AH
Float Charging Voltage	2.27 V~2.30 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	2.43 V~2.47 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -20℃~60℃ Charge: 0℃~50℃ Storage: -20℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25℃ and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25℃.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 offers 30% more cyclic life than the standby series. It is suitable for solar and wind renewable energy storage, mobility and medical equipment, RV, telecom, broadband and cable TV, UPS systems etc.

CERTIFICATE CERTIFICATE

MH28539 G4M20206-0910-E-16

Dimensions



Length	401±1mm (15.8 inches)
Width	350±1mm (13.8 inches)
Height	341±1mm (13.4 inches)
Total Height	364±1mm (14.3 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

Constant Current Discharge Characteristics :A(25℃)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	2543	1688	1101	672.5	501.3	396.5	334.1	228.0	193.2
1.65V	2543	1652	1080	661.1	493.6	391.0	330.0	225.5	191.3
1.70V	2440	1605	1052	645.9	483.4	383.7	324.5	222.1	188.7
1.75V	2302	1542	1015	625.1	469.4	373.7	316.9	217.4	185.1
1.80V	2115	1454	963.1	596.4	450.0	359.8	306.3	210.9	180.1
1.85V	1858	1330	889.4	555.3	422.1	339.8	290.9	201.3	172.7

Constant Power Discharge Characteristics : WPC(25℃)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	4445	3065	2058	1275	957.4	761.1	644.1	445.4	379.8
1.65V	4539	3046	2041	1262	948.5	754.6	639.4	441.8	376.7
1.70V	4393	2976	1996	1237	931.3	742.2	630.0	435.7	371.9
1.75V	4204	2887	1934	1203	908.2	725.7	617.3	427.3	365.3
1.80V	3918	2751	1844	1153	874.1	701.2	598.8	415.4	355.8
1.85V	3491	2542	1715	1080	823.5	664.6	570.6	397.5	341.8

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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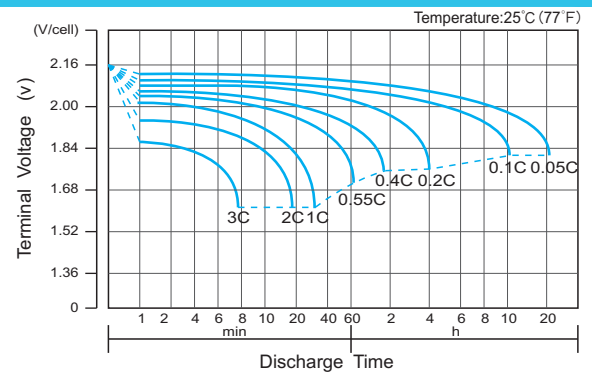
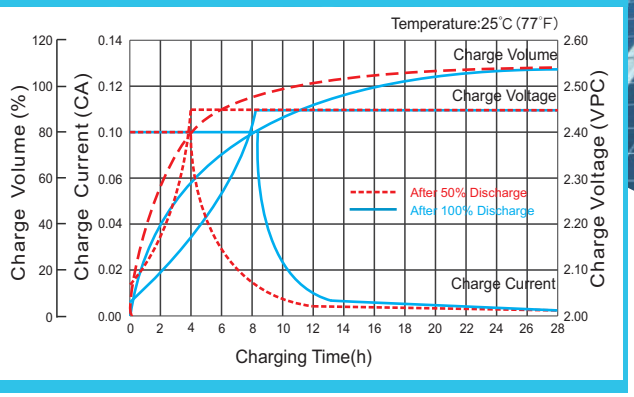
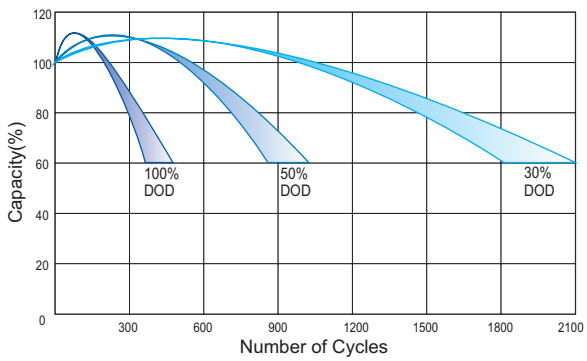
Discharge Characteristics Curve



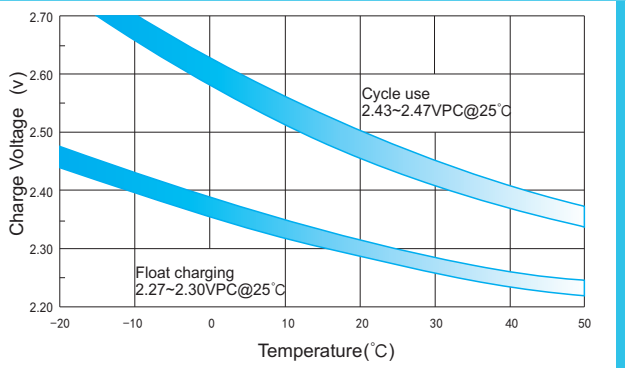
Charge Characteristic Curve for Cycle Use(IU)



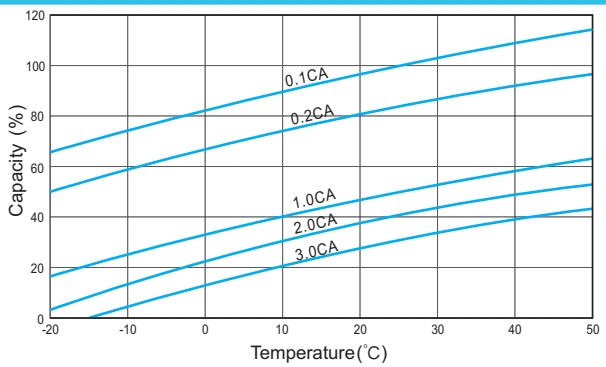
Cycle Life in Relation to Depth of Discharge



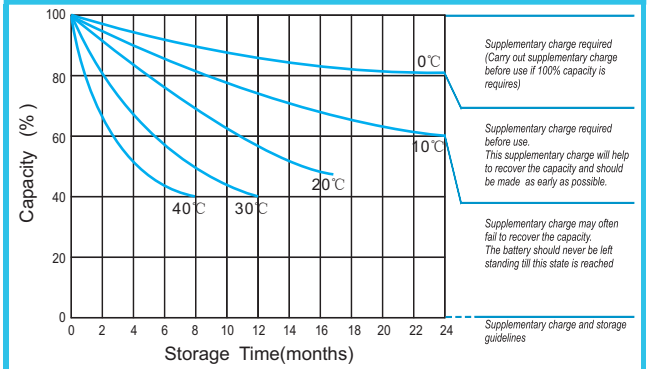
Relationship Between Charging Voltage and Temperature



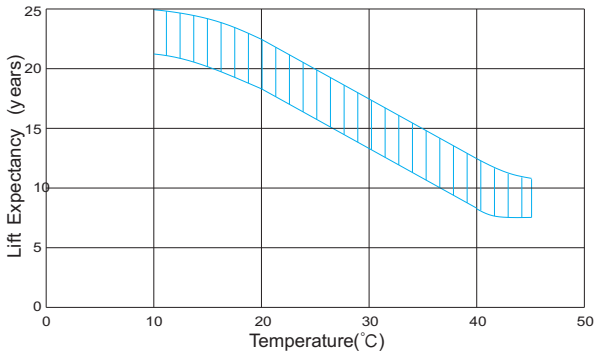
Temperature Effects on Capacity



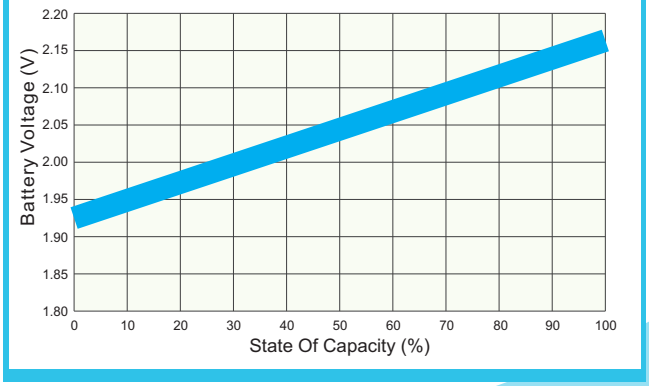
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)



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