

DC2-2500 (2V2500Ah)



Specification

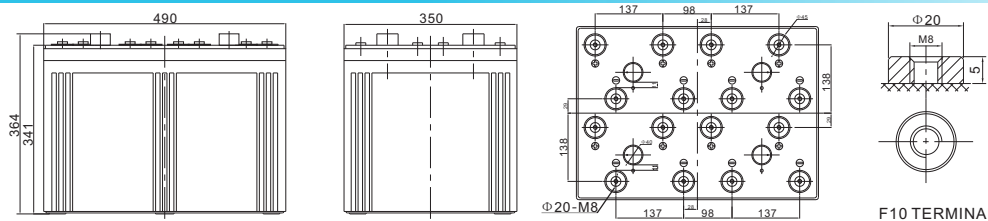
Cells Per Unit	1
Voltage Per Unit	2
Capacity	2500Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 140Kg (Tolerance ± 1%)
Internal Resistance	Approx. 0.33 mΩ
Terminal	F10(M8)
Max. Discharge Current	7000A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	500 A
Reference Capacity	C3 1956.0Ah C5 2200.5Ah C10 2500.0Ah C20 2700.0Ah
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 charge 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.



Dimensions



Length	490±2mm (19.3 inches)
Width	350±2mm (13.8 inches)
Height	341±2mm (13.4 inches)
Total Height	364±2mm (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°C)

F. V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	2344	1529	934.1	696.2	550.6	464.1	316.7	268.3	140.9
1.65V	2295	1500	918.2	685.6	543.1	458.3	313.2	265.6	139.5
1.70V	2230	1462	897.1	671.4	533.0	450.7	308.5	262.0	137.6
1.75V	2141	1410	868.3	652.0	519.1	440.1	302.0	257.1	135.0
1.80V	2020	1338	828.4	625.0	499.8	425.4	292.9	250.1	131.3
1.85V	1848	1235	771.3	586.3	471.9	404.0	279.6	239.9	126.0

Constant Power Discharge Characteristics : WPC(25°C)

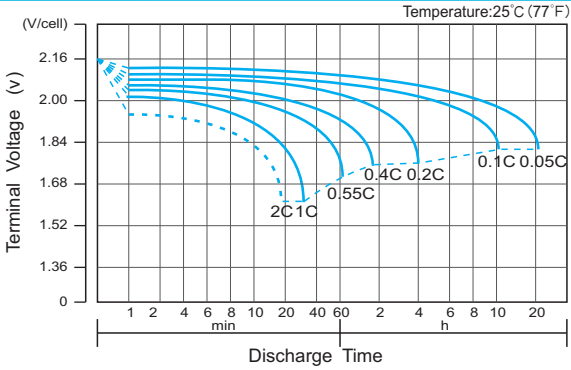
F. V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	4257	2859	1770	1330	1057	894.6	618.6	527.5	276.9
1.65V	4230	2834	1753	1317	1048	888.0	613.6	523.2	274.7
1.70V	4133	2772	1718	1293	1031	874.9	605.1	516.5	271.2
1.75V	4010	2686	1670	1261	1008	857.4	593.5	507.3	266.3
1.80V	3821	2561	1602	1214	973.9	831.6	576.9	494.1	259.4
1.85V	3531	2382	1500	1144	923.0	792.5	552.1	474.8	249.3

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

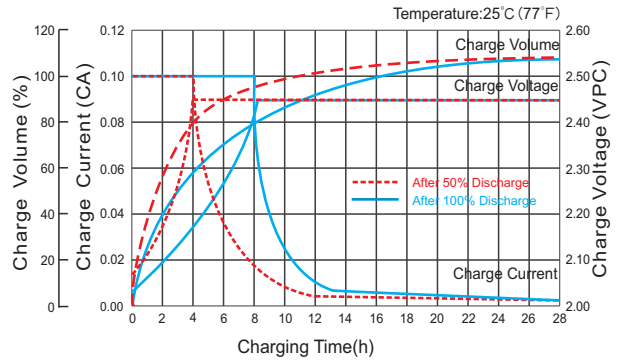
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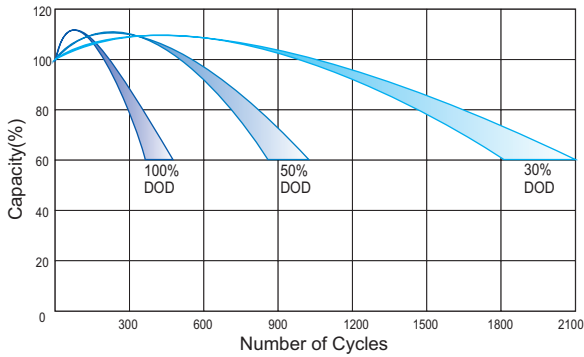
Discharge Characteristics Curve



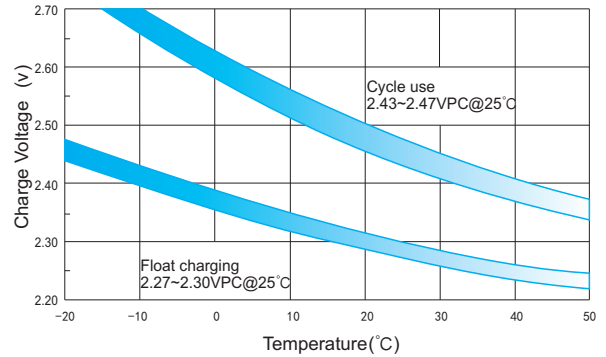
Charge Characteristic Curve for Cycle Use(IU)



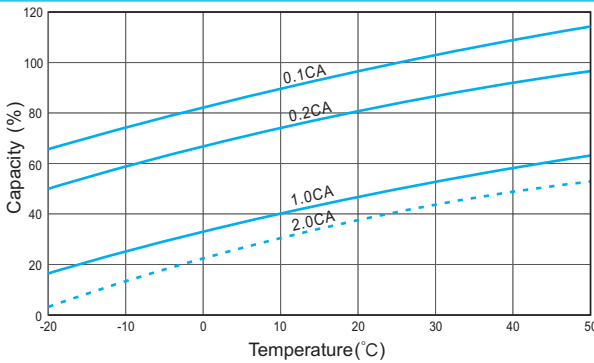
Cycle Life in Relation to Depth of Discharge



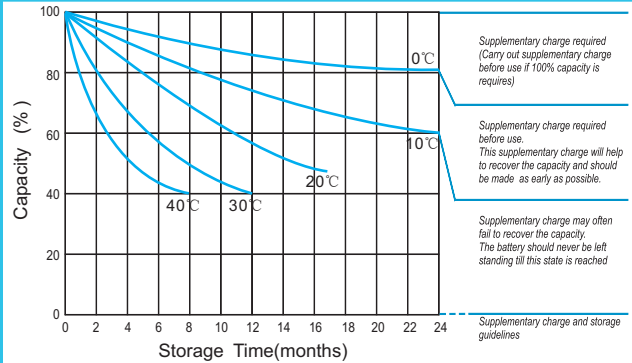
Relationship Between Charging Voltage and Temperature



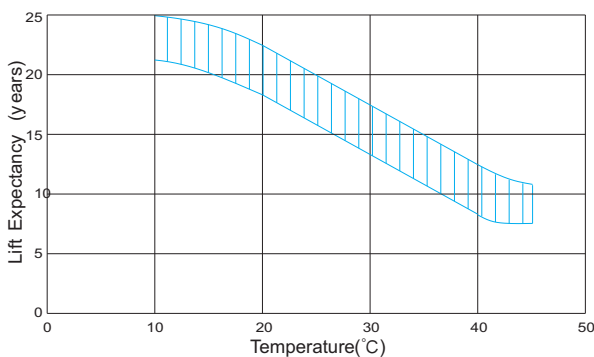
Temperature Effects on Capacity



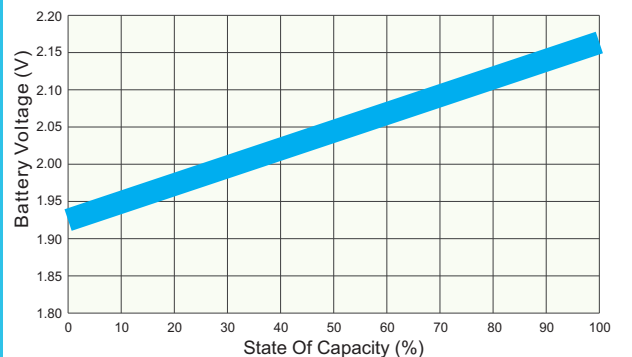
Storage Characteristics



Effect of Temperature on Long Term Life



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



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