

# DC2-2000 (2V2000Ah)



## Specification

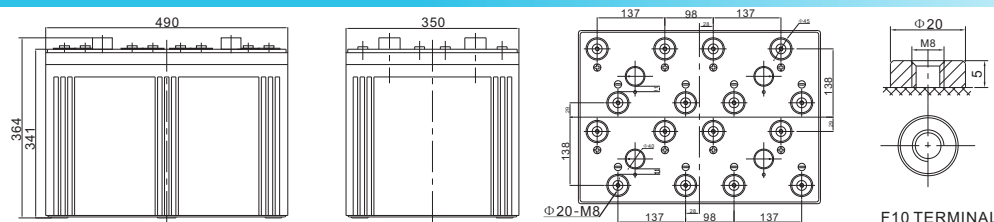
Cells Per Unit	1
Voltage Per Unit	2
Capacity	2000Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 120.0Kg (Tolerance ± 1%)
Internal Resistance	Approx. 0.4 mΩ
Terminal	F10(M8)
Max. Discharge Current	7000A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	400 A
Reference Capacity	C1 1223.0AH C3 1564.8AH C5 1760.5AH C10 2001.0AH
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 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±1mm (19.3 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°C)

F. V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	2825	1875	1223	747.2	557.0	440.5	371.3	253.4	214.7
1.65V	2825	1836	1200	734.5	548.4	434.4	366.7	250.6	212.5
1.70V	2711	1784	1169	717.7	537.1	426.4	360.5	246.8	209.6
1.75V	2557	1713	1128	694.6	521.6	415.3	352.1	241.6	205.6
1.80V	2350	1616	1070	662.7	500.0	399.8	340.3	234.3	200.1
1.85V	2065	1478	988.2	617.0	469.0	377.5	323.2	223.7	191.9

### Constant Power Discharge Characteristics : WPC(25°C)

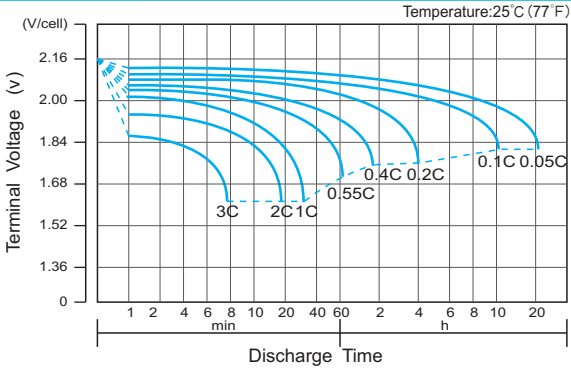
F. V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	4939	3406	2287	1416	1064	845.7	715.6	494.9	422.0
1.65V	5043	3384	2267	1402	1054	838.5	710.4	490.8	418.6
1.70V	4881	3307	2217	1374	1035	824.7	700.0	484.1	413.2
1.75V	4672	3208	2149	1336	1009	806.3	685.9	474.8	405.8
1.80V	4354	3057	2049	1281	971.2	779.1	665.3	461.5	395.3
1.85V	3879	2824	1906	1200	915.0	738.4	634.0	441.7	379.8

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

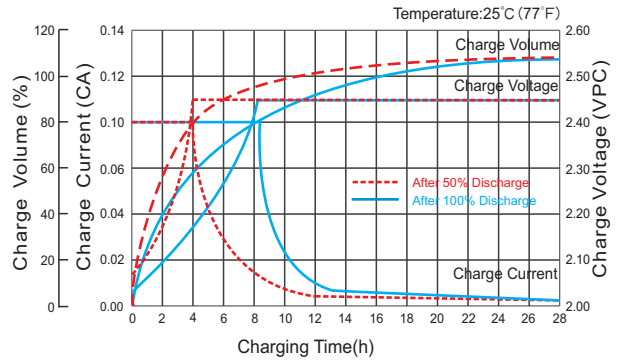
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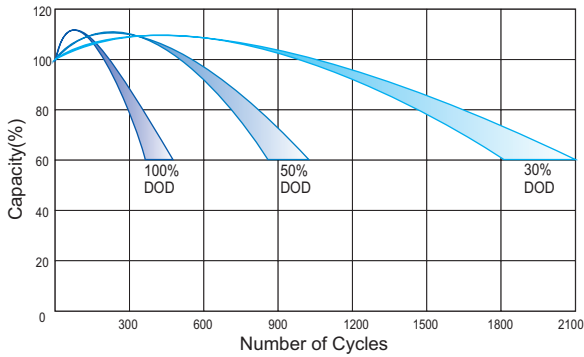
## Discharge Characteristics Curve



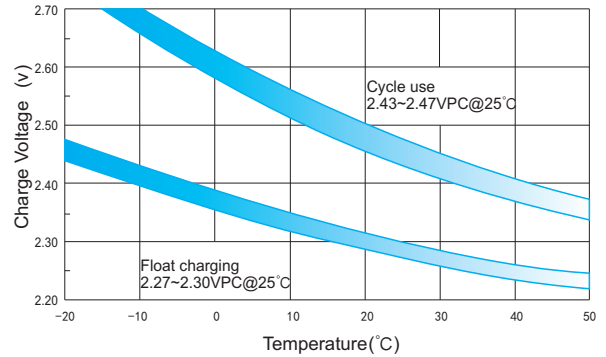
## Charge Characteristic Curve for Cycle Use(IU)



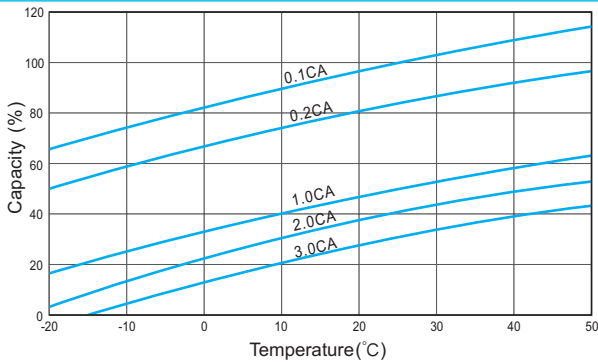
## Cycle Life in Relation to Depth of Discharge



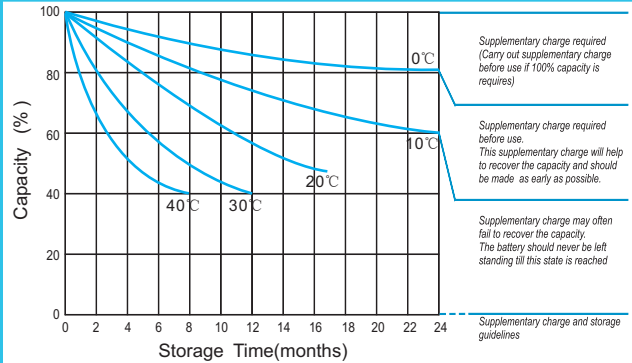
## Relationship Between Charging Voltage and Temperature



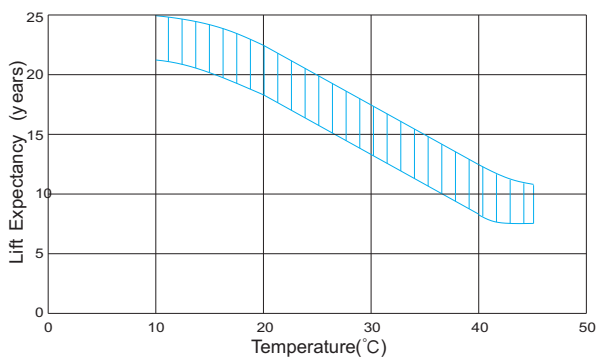
## Temperature Effects on Capacity



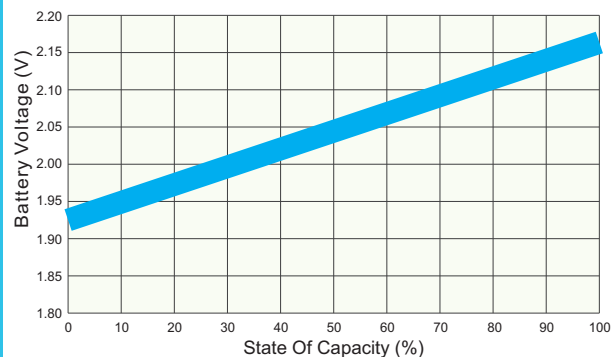
## Storage Characteristics



## Effect of Temperature on Long Term Life



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



For Battery Sales + EPA Battery Recycling and AC / DC Power Services, please contact:  
**Moore & Moore Solutions, Inc.**  
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 Email: [mr@mooreu.com](mailto:mr@mooreu.com)  
[www.MooreU.com](http://www.MooreU.com)