

# DC2-3000 (2V3000Ah)



## Specification

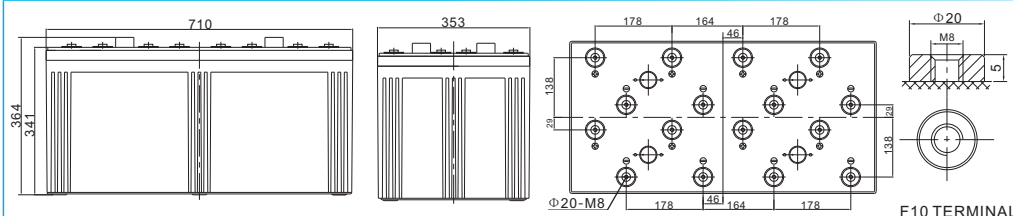
Cells Per Unit	1
Voltage Per Unit	2
Capacity	3000Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 178Kg (Tolerance ± 1%)
Internal Resistance	Approx. 0.3 mΩ
Terminal	F10(M8)
Max. Discharge Current	9000A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	600 A
Reference Capacity	C1 1835.0AH C3 2347.2AH C5 2640.5AH C10 3001.0AH
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	710±1mm (28.0 inches)
Width	353±1mm (13.9 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	4238	2813	1835	1121	835.4	660.8	556.9	380.1	322.0
1.65V	4238	2754	1800	1102	822.7	651.7	550.0	375.8	318.8
1.70V	4066	2675	1754	1077	805.7	639.6	540.8	370.2	314.4
1.75V	3836	2569	1691	1042	782.4	622.9	528.1	362.4	308.5
1.80V	3525	2424	1605	994.1	750.0	599.7	510.4	351.4	300.1
1.85V	3097	2217	1482	925.6	703.5	566.3	484.8	335.6	287.9

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

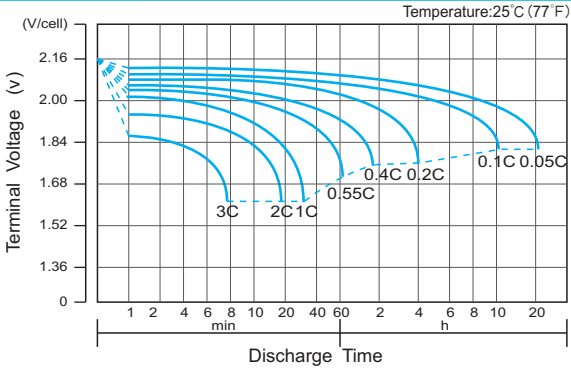
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	7409	5108	3430	2124	1596	1269	1073	742.3	632.9
1.65V	7565	5076	3401	2103	1581	1258	1066	736.3	627.9
1.70V	7322	4960	3326	2062	1552	1237	1050	726.1	619.8
1.75V	7007	4812	3223	2005	1514	1209	1029	712.2	608.8
1.80V	6531	4585	3073	1922	1457	1169	997.9	692.3	593.0
1.85V	5819	4237	2858	1799	1373	1108	951.0	662.5	569.7

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

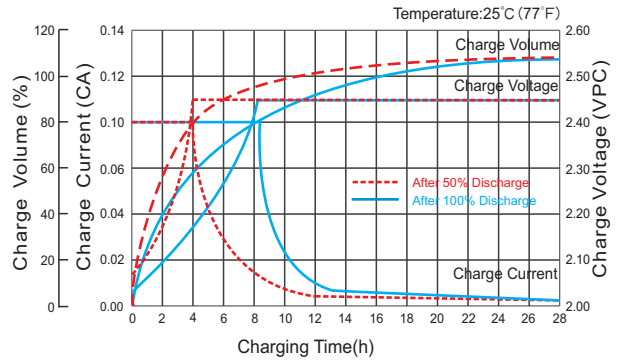
# DC2-3000(2V3000Ah)



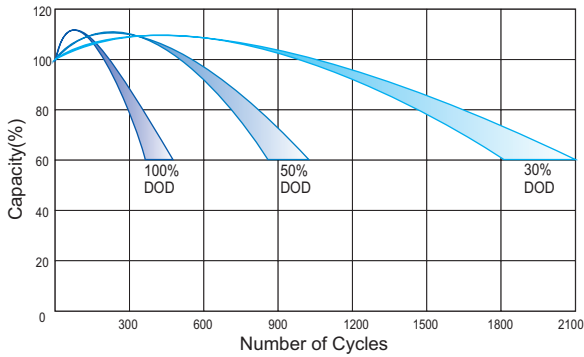
## Discharge Characteristics Curve



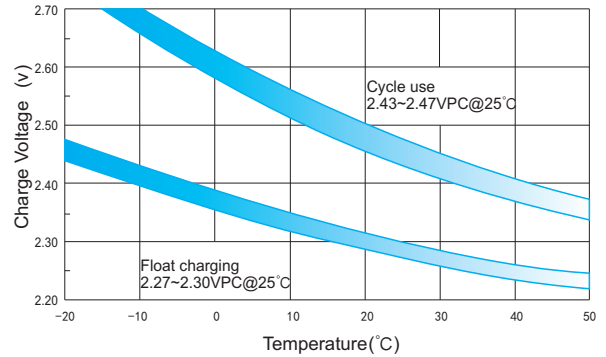
## Charge Characteristic Curve for Cycle Use(IU)



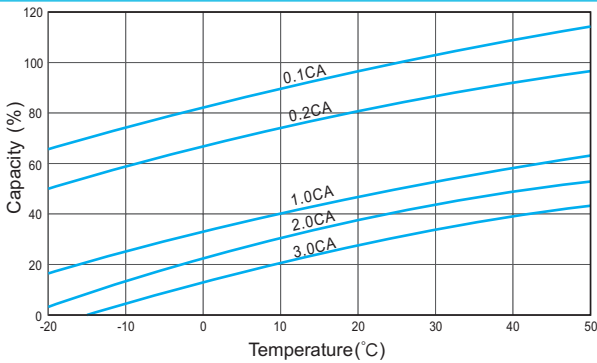
## Cycle Life in Relation to Depth of Discharge



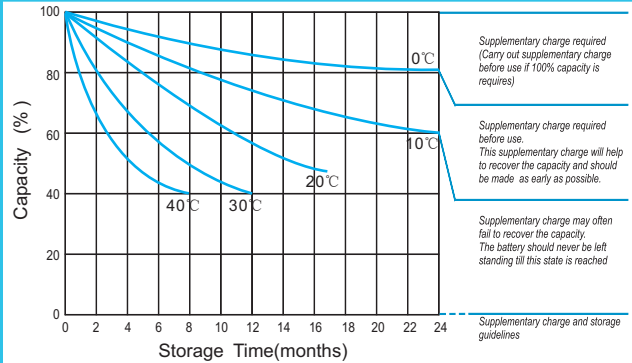
## Relationship Between Charging Voltage and Temperature



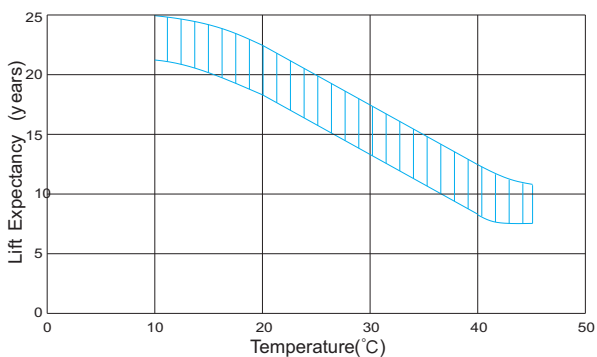
## Temperature Effects on Capacity



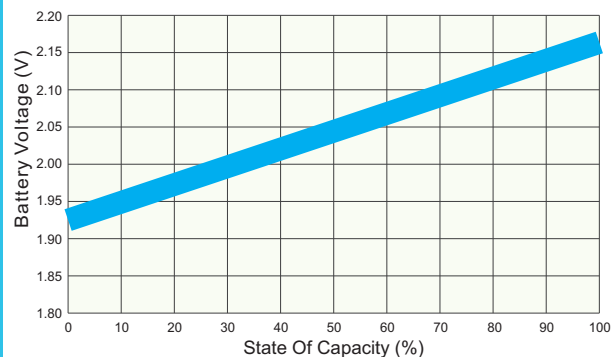
## Storage Characteristics



## 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.**  
 Phone: 484-302-7009  
 Email: [mr@mooreu.com](mailto:mr@mooreu.com)  
[www.MooreU.com](http://www.MooreU.com)