DC2-800(2V800Ah)

RITAR®

Specification

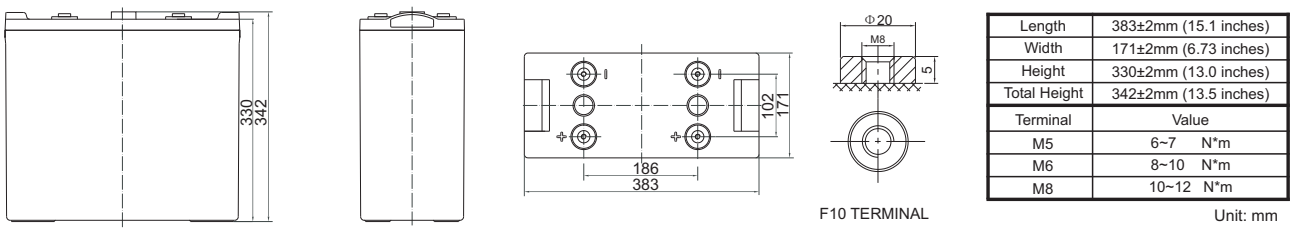
Cells Per Unit	1
Voltage Per Unit	2
Capacity	800Ah@10hr-rate to 1.80V per cell @25℃
Weight	Approx. 50.0 Kg (Tolerance±3%)
Internal Resistance	Approx. 0.6 mΩ
Terminal	F10(M8)
Max. Discharge Current	3500A (5 sec)
Design Life	20 years (floating charge)
Max. Charging Current	160.0 A
Reference Capacity	C1 488.8Ah C3 619.2Ah C5 698.0Ah C10 800.0Ah
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 offer 30% more cyclic life than the standby series.It is suitable for solar and wind renewable nergy storage,mobility and medical equipment,V,telecom,broadband and cable TV,UPS systems etc.

ISO 9001 ISO 14001 OHSAS 18001

MH 28539

Dimensions



F10 TERMINAL

Length	383±2mm (15.1 inches)
Width	171±2mm (6.73 inches)
Height	330±2mm (13.0 inches)
Total Height	342±2mm (13.5 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	1169	766.0	488.8	301.0	225.6	181.6	150.9	101.4	84.40
1.65V	1095	735.4	472.0	291.4	218.7	176.7	147.0	100.3	83.37
1.70V	1026	702.9	456.7	281.8	212.7	171.9	143.2	98.74	82.11
1.75V	954.7	671.8	440.0	272.0	206.4	167.5	139.6	97.38	81.03
1.80V	881.5	642.1	423.2	262.2	200.0	162.7	136.0	95.72	80.00
1.85V	731.5	553.0	379.5	240.3	184.9	151.2	126.8	89.86	75.30

Constant Power Discharge Characteristics : WPC(25℃)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	2044	1391	918.5	570.5	431.0	348.7	290.9	198.1	165.9
1.65V	1943	1350	892.1	555.0	419.4	340.5	284.4	196.3	164.1
1.70V	1847	1303	868.5	539.6	409.8	332.5	278.0	193.7	161.8
1.75V	1744	1258	841.8	523.2	399.3	325.2	271.9	191.4	159.9
1.80V	1633	1215	814.3	507.0	388.5	317.0	265.9	188.6	158.1
1.85V	1374	1057	734.9	467.1	360.7	295.8	248.8	177.4	149.0

(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 C_{10} should reach 95% after the first cycle and 100% after the third cycle.

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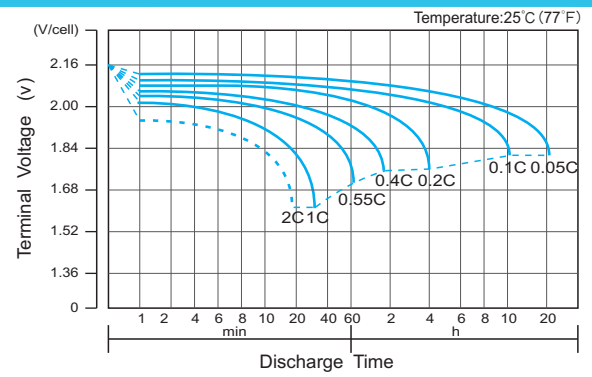
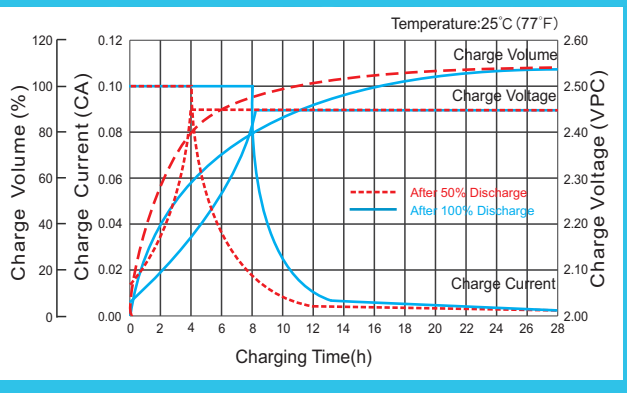
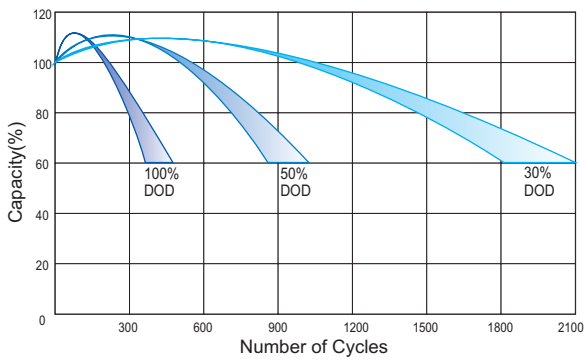
Discharge Characteristics Curve



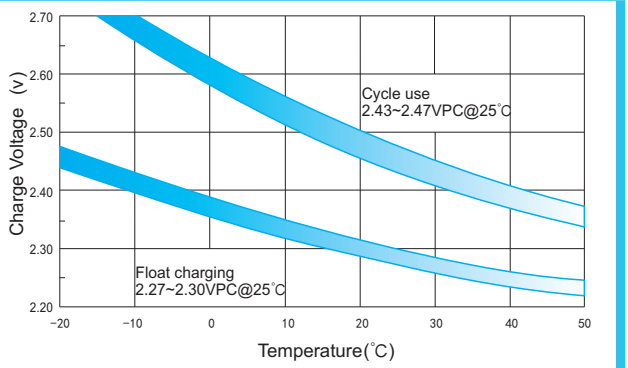
Charge Characteristic Curve for Cycle Use(IU)



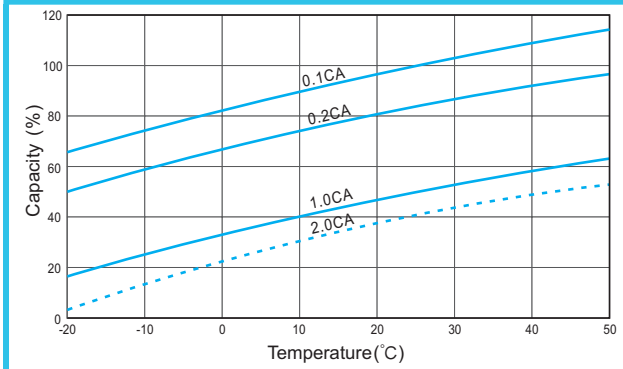
Cycle Life in Relation to Depth of Discharge



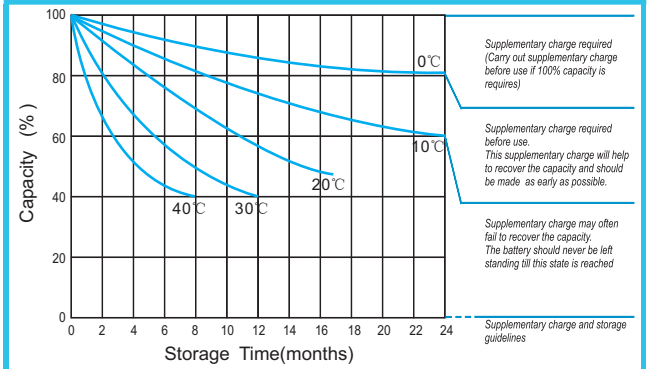
Relationship Between Charging Voltage and Temperature



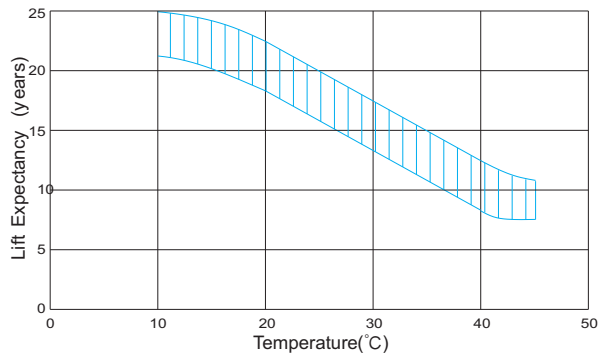
Temperature Effects on Capacity



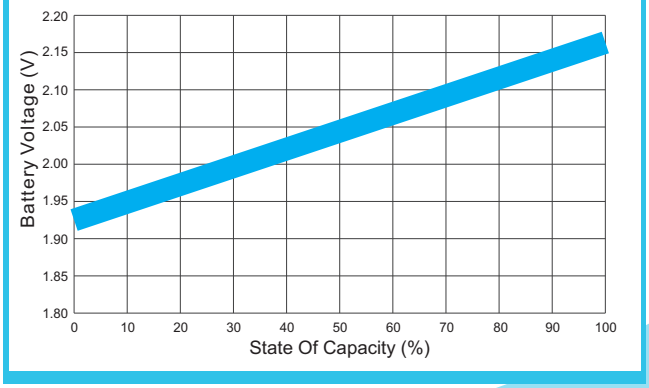
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)



(Note) All above information shall be changed without prior notice, Ritar reserves the right to explain and update the latest information.

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