

DC2-200(2V200Ah)



Specification



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 energy storage, mobility and medical equipment, V, telecom, broadband and cable TV, UPS systems etc.



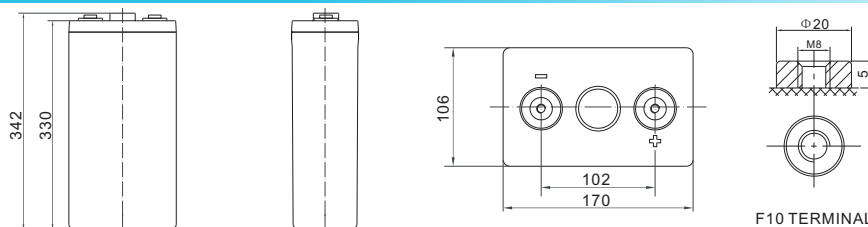
ISO 9001 ISO 14001 OHSAS 18001



MH 28539

Cells Per Unit	1
Voltage Per Unit	2
Capacity	200Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 13.1 Kg (Tolerance ±3%)
Internal Resistance	Approx. 0.8 mΩ
Terminal	F10(M8)
Max. Discharge Current	1000A (5 sec)
Design Life	20 years (floating charge)
Max. Charging Current	40.0 A
Reference Capacity	C1 122.2Ah C3 154.8Ah C5 174.5Ah C10 200.0Ah
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.

Dimensions



Length	170±2mm (6.69 inches)
Width	106±2mm (4.17 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°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	307.6	195.4	122.2	75.25	56.41	45.41	37.73	25.36	21.10
1.65V	288.2	187.6	118.0	72.85	54.67	44.18	36.75	25.07	20.84
1.70V	270.0	179.3	114.2	70.45	53.18	42.98	35.80	24.69	20.53
1.75V	251.2	171.4	110.0	67.99	51.60	41.88	34.90	24.35	20.26
1.80V	232.0	163.8	105.8	65.56	50.00	40.67	34.00	23.93	20.00
1.85V	192.5	141.1	94.88	60.07	46.22	37.81	31.70	22.47	18.83

Constant Power Discharge Characteristics : WPC(25°C)

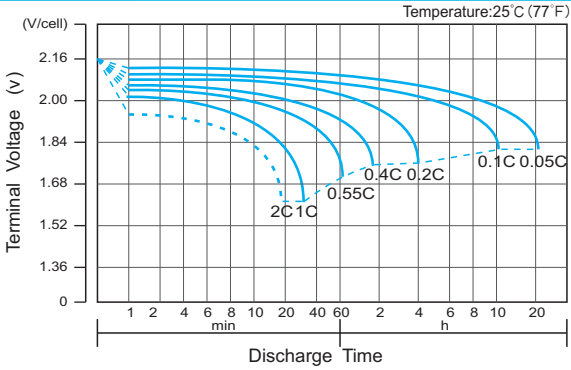
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	537.8	354.9	229.6	142.6	107.7	87.18	72.73	49.52	41.48
1.65V	511.4	344.3	223.0	138.7	104.9	85.13	71.11	49.07	41.03
1.70V	486.1	332.4	217.1	134.9	102.5	83.13	69.50	48.42	40.46
1.75V	458.9	321.0	210.5	130.8	99.82	81.31	67.99	47.85	39.98
1.80V	429.8	309.9	203.6	126.8	97.12	79.26	66.47	47.14	39.52
1.85V	361.7	269.5	183.7	116.8	90.18	73.95	62.19	44.36	37.26

(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 C₁₀ should reach 95% after the first cycle and 100% after the third cycle.

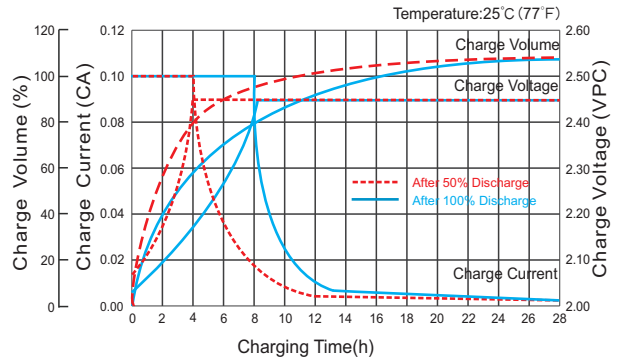
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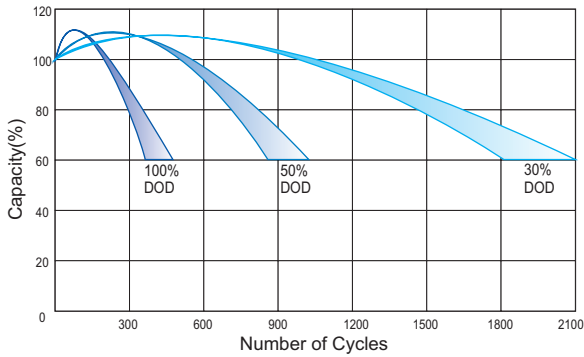
Discharge Characteristics Curve



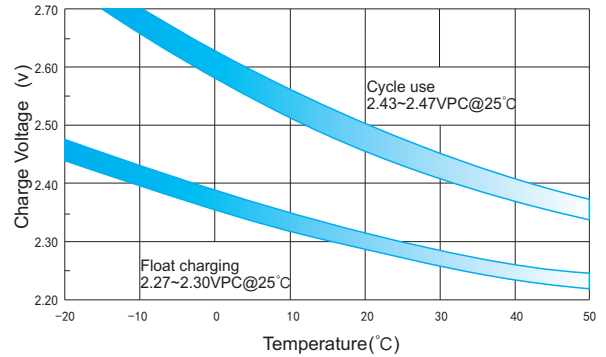
Charge Characteristic Curve for Cycle Use(IU)



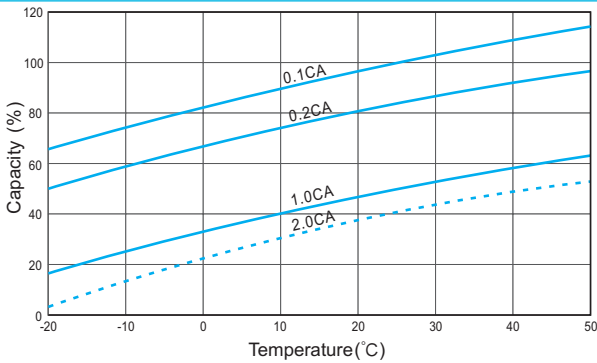
Cycle Life in Relation to Depth of Discharge



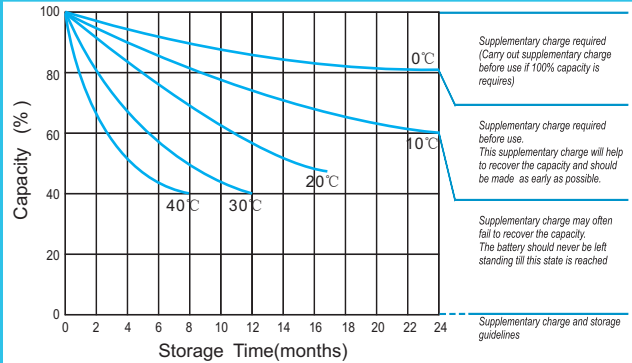
Relationship Between Charging Voltage and Temperature



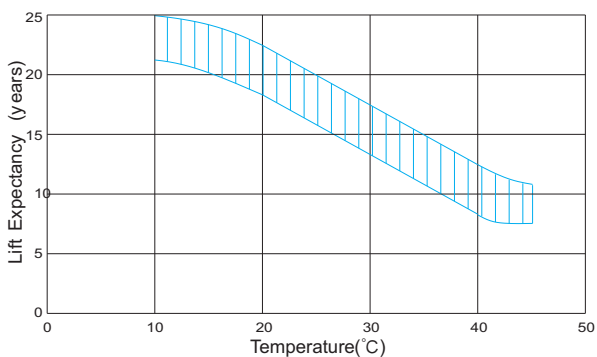
Temperature Effects on Capacity



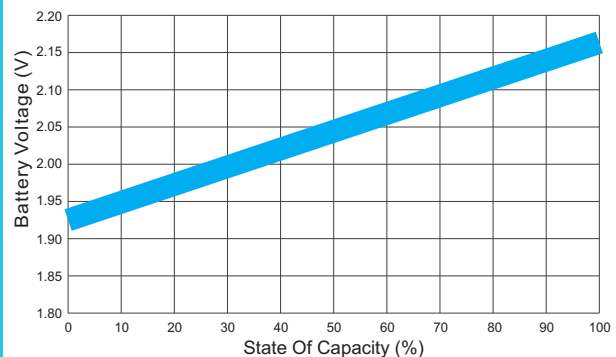
Storage Characteristics



Effect of Temperature on Long Term Life



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



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