DC2-350(2V350Ah)

RITAR®

Specification

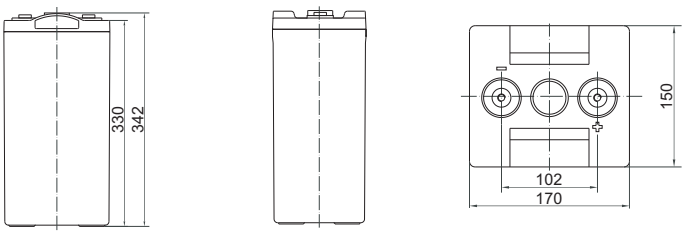
Cells Per Unit	1
Voltage Per Unit	2
Capacity	350Ah@10hr-rate to 1.80V per cell @25℃
Weight	Approx. 20.3 Kg (Tolerance±3%)
Internal Resistance	Approx. 0.7 mΩ
Terminal	F10(M8)
Max. Discharge Current	1750A (5 sec)
Design Life	20 years (floating charge)
Max. Charging Current	70.0 A
Reference Capacity	C1 213.8Ah C3 270.9Ah C5 305.4Ah C10 350.0Ah
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	170±2mm (6.69 inches)
Width	150±2mm (5.91 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	538.4	342.0	213.8	131.7	98.72	79.47	66.03	44.38	36.92
1.65V	504.4	328.3	206.5	127.5	95.67	77.31	64.32	43.88	36.47
1.70V	472.4	313.8	199.8	123.3	93.07	75.21	62.65	43.20	35.92
1.75V	439.6	299.9	192.5	119.0	90.29	73.28	61.07	42.60	35.45
1.80V	406.0	286.7	185.1	114.7	87.50	71.18	59.50	41.88	35.00
1.85V	336.9	246.9	166.0	105.1	80.89	66.16	55.48	39.32	32.95

Constant Power Discharge Characteristics : WPC(25℃)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	941.2	621.1	401.9	249.6	188.6	152.6	127.3	86.67	72.58
1.65V	894.9	602.5	390.3	242.8	183.5	149.0	124.4	85.87	71.80
1.70V	850.7	581.7	380.0	236.1	179.3	145.5	121.6	84.74	70.81
1.75V	803.1	561.7	368.3	228.9	174.7	142.3	119.0	83.73	69.96
1.80V	752.1	542.3	356.3	221.8	170.0	138.7	116.3	82.49	69.16
1.85V	632.9	471.7	321.5	204.4	157.8	129.4	108.8	77.62	65.20

(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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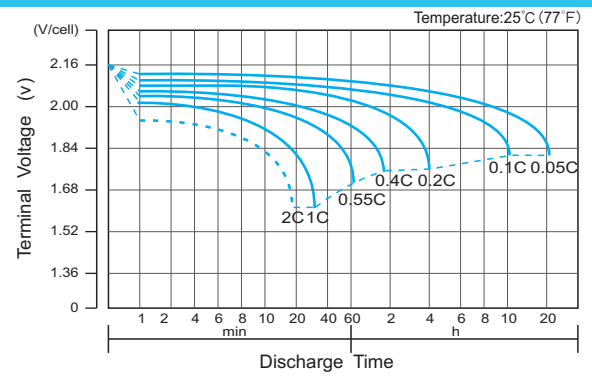
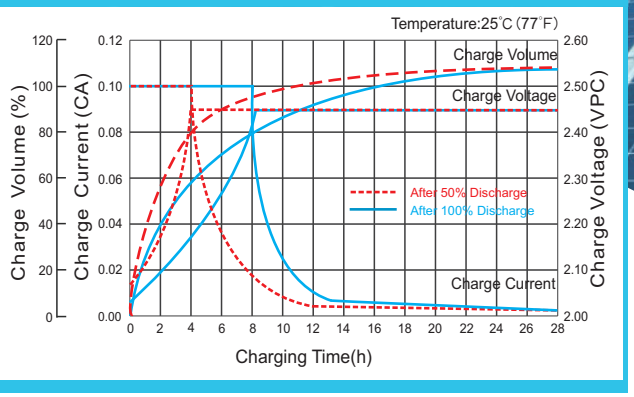
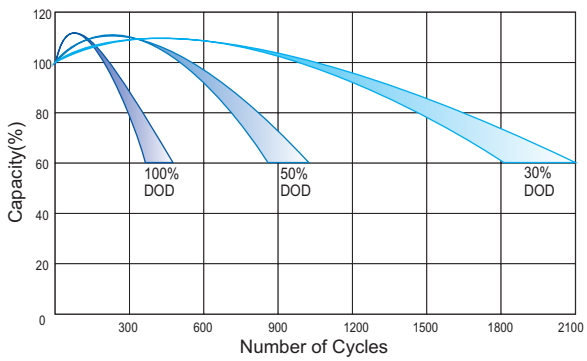
Discharge Characteristics Curve



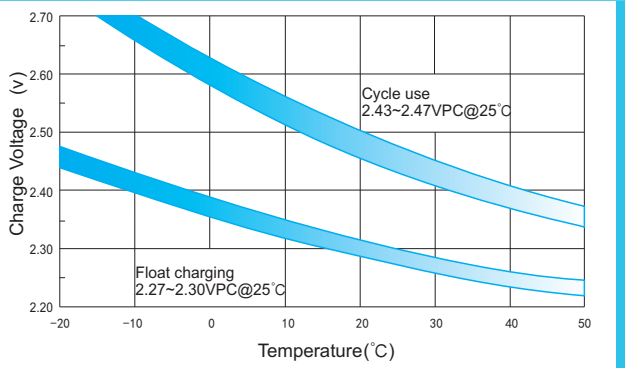
Charge Characteristic Curve for Cycle Use(IU)



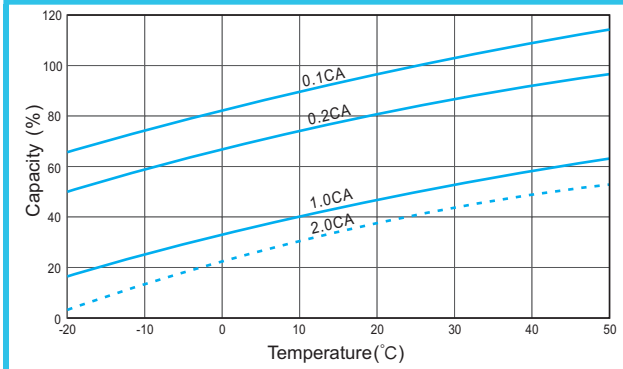
Cycle Life in Relation to Depth of Discharge



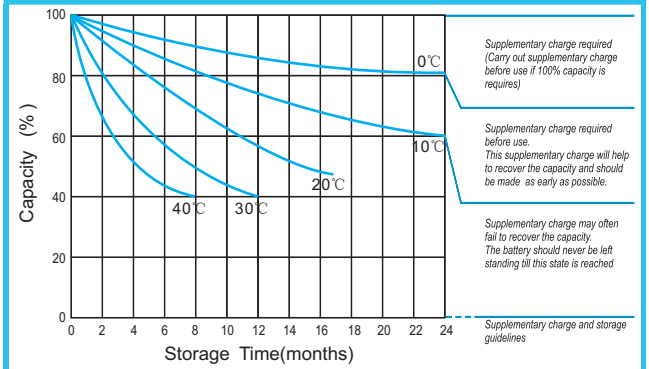
Relationship Between Charging Voltage and Temperature



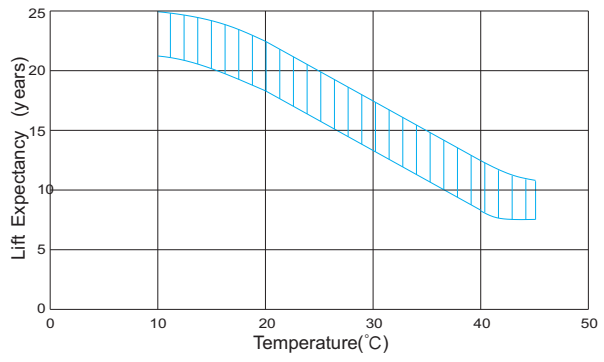
Temperature Effects on Capacity



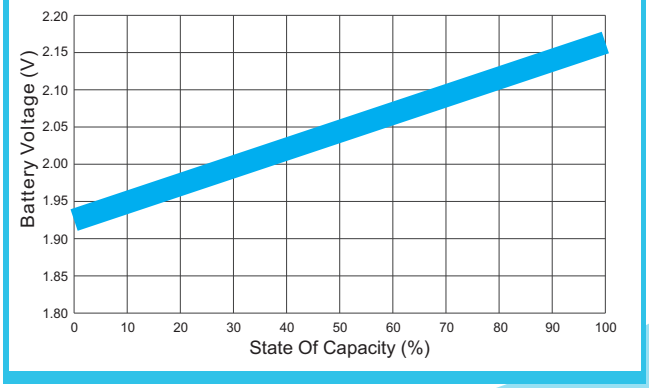
Storage Characteristics



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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Version 19B-0