EV8-170(8V170Ah)

RITAR®

Specification

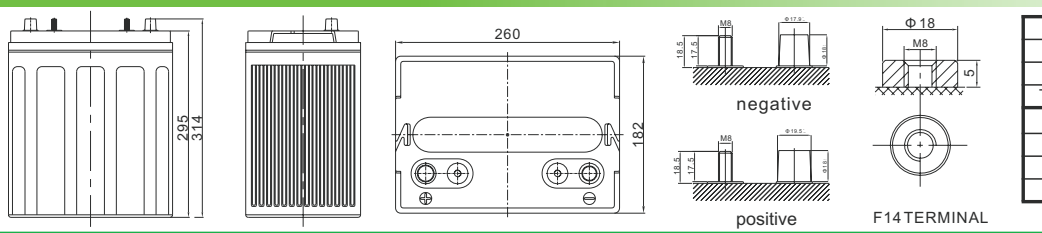
Cells Per Unit	4
Voltage Per Unit	8
Capacity	170Ah@20hr-rate to 1.75V per cell @25℃
Weight	Approx. 34.5 Kg (Tolerance±2%)
Internal Resistance	Approx. 3.2 mΩ
Terminal	F22(M8)/F14(M8)
Max. Discharge Current	1700A (5 sec)
Cold Cranking Ampere(CCA)	680A
Maximum Charging Current	51.0A
Reference Capacity	C3 131.7AH C5 149.5AH C10 162.0AH C20 170.0AH
Float Charging Voltage	9.07 V~9.20 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	9.73 V~9.87 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.

EV(Electric Vehicle)series is specially designed for frequent discharge deep cycle application.By using the specially designed active material,strong grids and thick plate construction,the EV series battery offers reliable performance in high load situations and could provide competitive cycle performance.Suitable for Electric Vehicle and Golf cart; Industrial equipment,Floor machines,Forklifts, Aerial lifts,and Robotics; Marine, RV, and no-idle solutions; Mobility and Medical equipment;and most outdoor application.

ISO 9001 ISO 14001 OHSAS 18001

MH 28539 G4M20206-0910-E-16

Dimensions



Length	260±2mm (10.2 inches)
Width	182±2mm (7.17 inches)
Height	295±2mm (11.6 inches)
Total Height	314±2mm (12.4 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	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	169.2	103.0	61.6	46.9	37.3	31.5	20.9	17.3	8.83
1.65V	165.7	101.1	60.5	46.2	36.7	31.1	20.7	17.2	8.75
1.70V	161.0	98.5	59.1	45.2	36.1	30.6	20.3	16.9	8.65
1.75V	154.6	95.0	57.2	43.9	35.1	29.9	19.9	16.6	8.50
1.80V	145.8	90.1	54.6	42.1	33.8	28.9	19.3	16.2	8.29
1.85V	133.4	83.2	50.9	39.5	31.9	27.4	18.4	15.5	7.99

Constant Power Discharge Characteristics : WPC(25℃)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	307.4	192.7	116.7	89.5	71.5	60.8	40.8	34.1	17.4
1.65V	305.4	191.0	115.6	88.7	70.9	60.3	40.5	33.8	17.3
1.70V	298.4	186.8	113.3	87.1	69.8	59.4	39.9	33.4	17.1
1.75V	289.5	181.0	110.1	84.9	68.2	58.2	39.1	32.8	16.8
1.80V	275.9	172.6	105.6	81.7	65.9	56.5	38.1	31.9	16.4
1.85V	254.9	160.5	98.9	77.0	62.5	53.8	36.4	30.7	15.8

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

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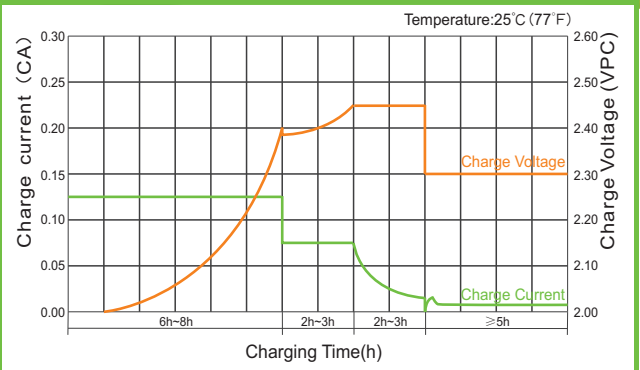
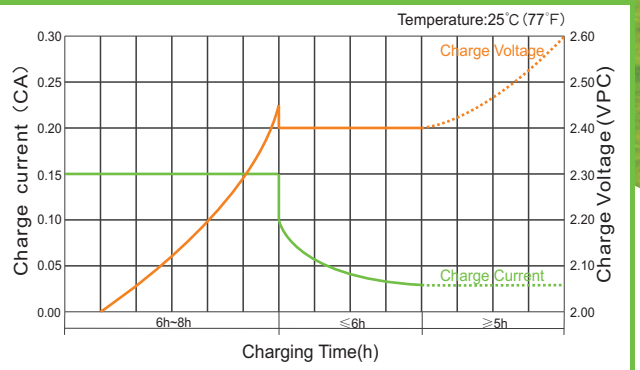
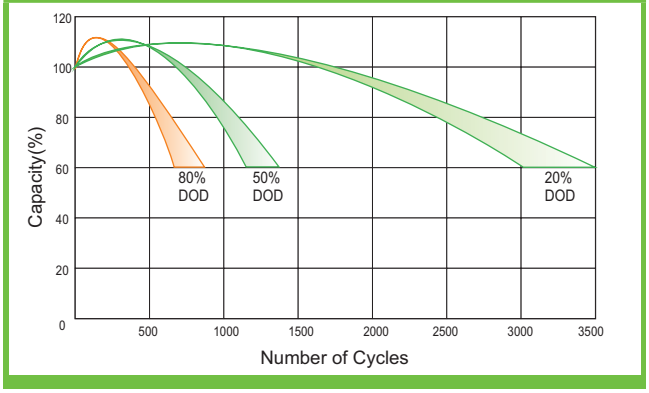
Charge Characteristic Curve for Cycle Use(IIUU)



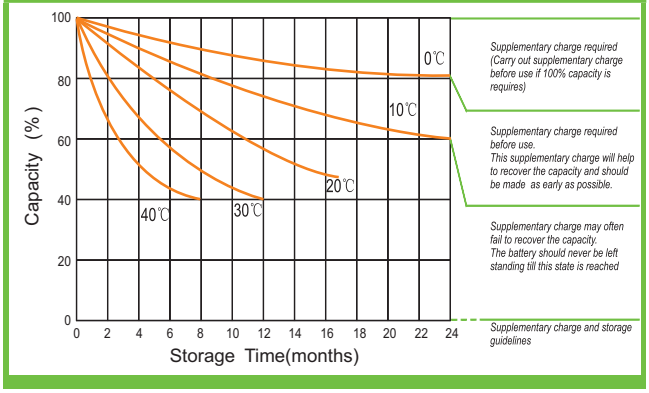
Charge Characteristic Curve For Cycle Use(IUI)



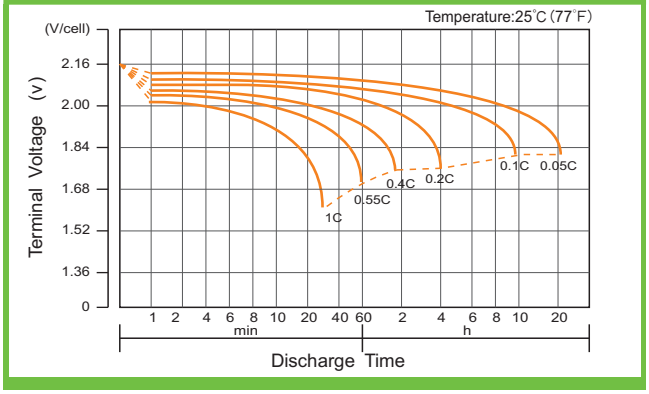
Cycle Life in Relation to Depth of Discharge



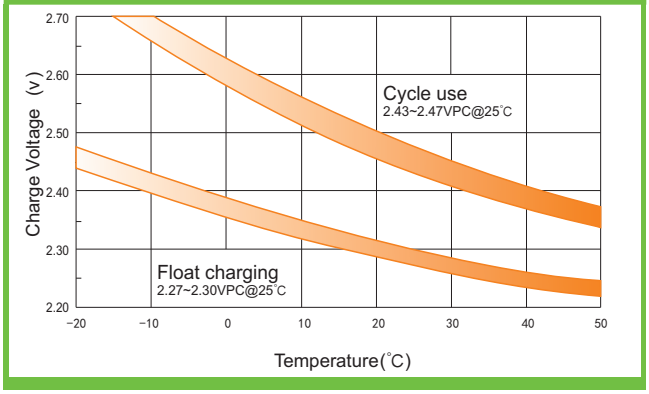
Storage Characteristics



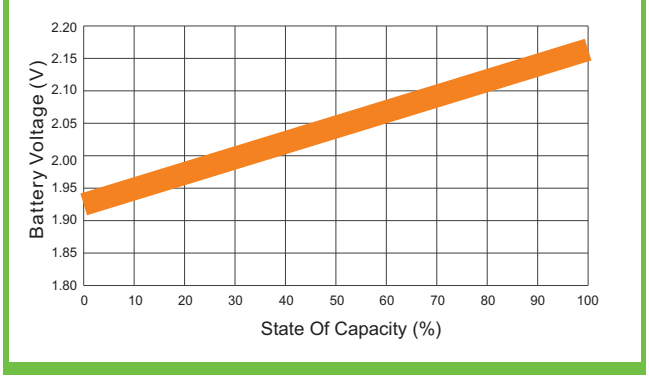
Discharge Characteristics Curve



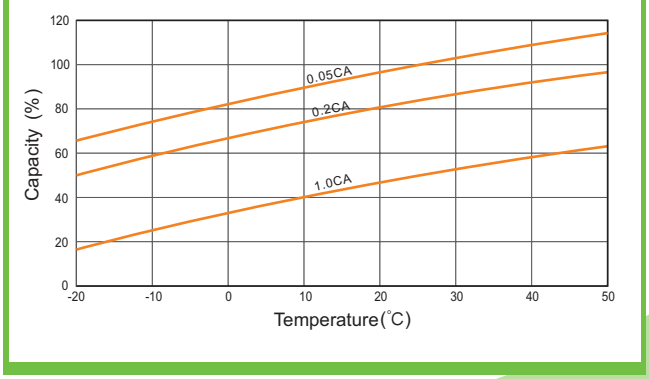
Relationship Between Charging Voltage and Temperature



Relationship of OCV And State of Charge(20℃)



Temperature Effects on Capacity



(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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