EV8-170SA(8V157Ah)

RITAR®

Specification

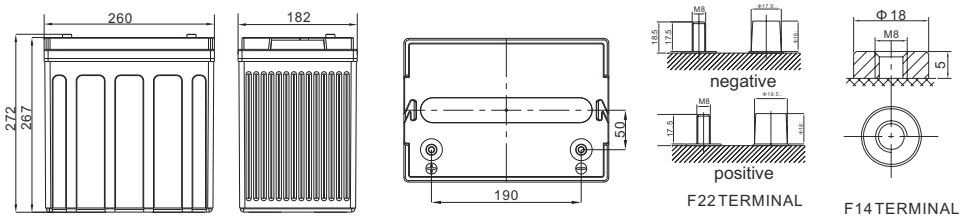
Cells Per Unit	4
Voltage Per Unit	8
Capacity	157Ah@10hr-rate to 1.80V per cell @25˚C
Weight	Approx. 31.5 Kg (Tolerance±3.0%)
Internal Resistance	Approx. 2.8 mΩ
Terminal	F14(M8)/F22(M8)
Max. Discharge Current	1570A (5 sec)
Cold Cranking Ampere(CCA)	630A
Maxi. Charging Current	47.1A
Reference Capacity	C3 121.5AH C5 137.0AH C10 157.0AH C20 170.0AH
Float Charging Voltage	9.07 V~9.20 V @ 25˚C Temperature Compensation: -3mV/˚C/Cell
Cycle Use Voltage	9.73 V~9.87 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.

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. It is suitable for Electric Vehicle and Golf cart, Floor Machines, Forklifts, Aerial lifts, Robotics, Marine, RV, 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	267±2mm (10.5 inches)
Total Height	272±2mm (10.7 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

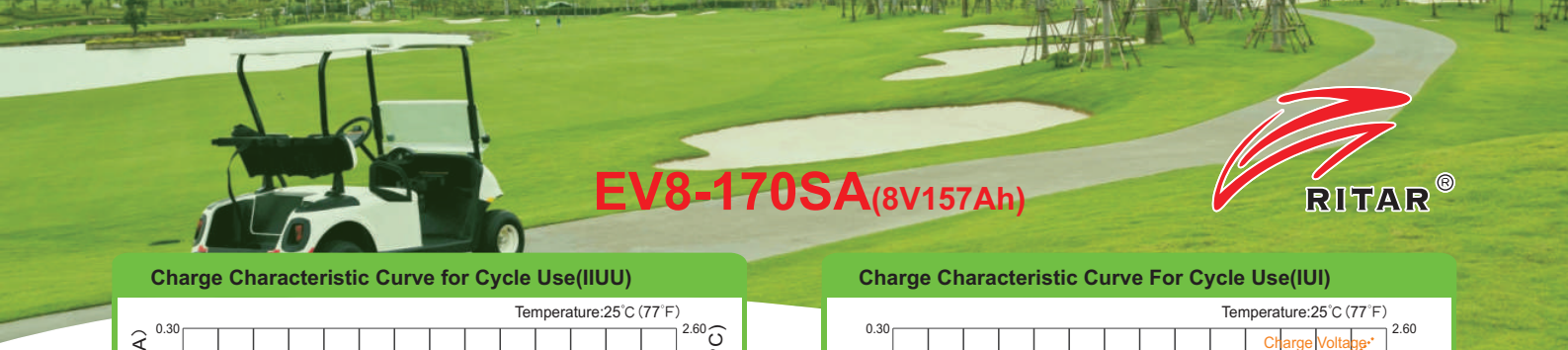
Constant Current Discharge Characteristics : A(25˚C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	362.0	286.2	173.6	96.9	57.2	44.3	34.8	29.6	19.9	16.6	8.85
1.65V	342.1	273.6	166.7	93.6	55.4	43.0	33.9	28.9	19.7	16.4	8.71
1.70V	314.9	256.2	159.3	90.5	53.6	41.8	33.0	28.1	19.4	16.1	8.61
1.75V	288.3	238.5	152.3	87.2	51.7	40.5	32.1	27.4	19.1	15.9	8.50
1.80V	261.0	220.2	145.5	83.9	49.8	39.3	31.2	26.7	18.8	15.7	8.42
1.85V	213.3	182.7	125.3	75.2	45.7	36.3	29.0	24.9	17.7	14.8	7.99

Constant Power Discharge Characteristics : WPC(25˚C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	615.4	500.3	315.3	182.1	108.4	84.7	66.9	57.2	38.9	32.6	17.4
1.65V	592.7	485.4	305.9	176.8	105.5	82.4	65.3	55.9	38.6	32.2	17.2
1.70V	555.7	461.4	295.3	172.2	102.6	80.5	63.8	54.6	38.1	31.8	17.0
1.75V	517.8	435.6	285.2	166.9	99.4	78.4	62.4	53.4	37.6	31.4	16.8
1.80V	476.9	407.9	275.3	161.4	96.4	76.3	60.8	52.2	37.0	31.0	16.7
1.85V	396.7	343.3	239.5	145.7	88.8	70.9	56.7	48.9	34.9	29.2	15.8

(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.
If F22 terminal is selected and the discharge current is more than 0.25C, the threaded terminal of terminal F22 shall not be used in connection, but the lead pole shall be connected.



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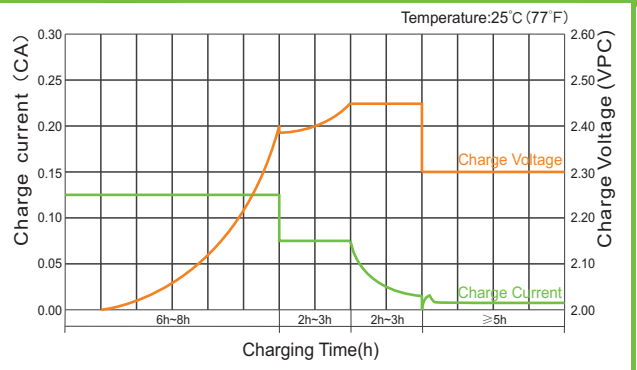
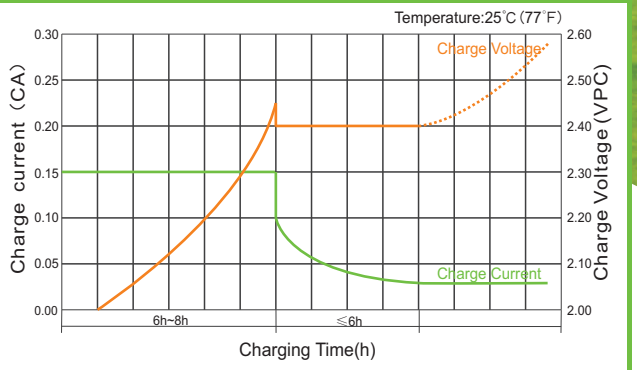
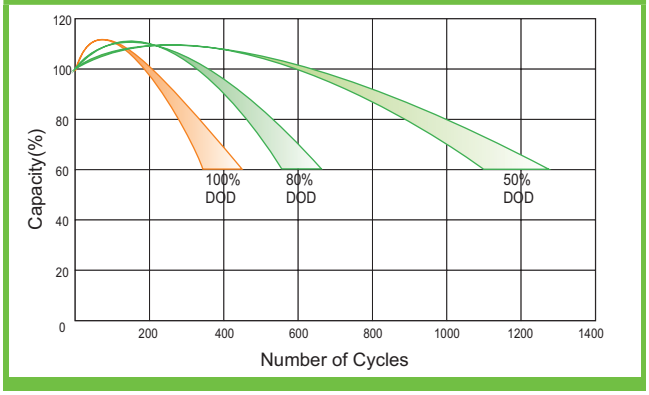
Charge Characteristic Curve for Cycle Use(IIUU)



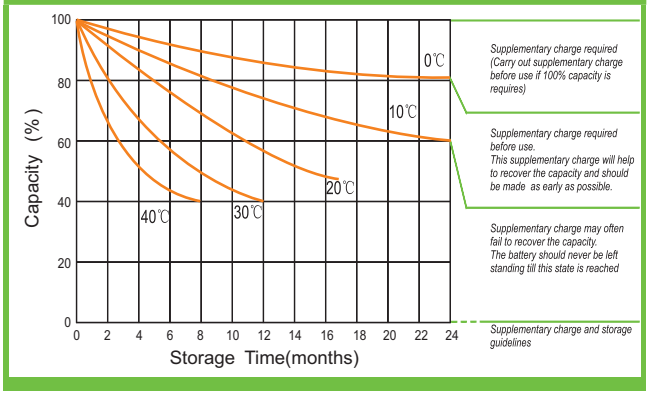
Charge Characteristic Curve For Cycle Use(IUI)



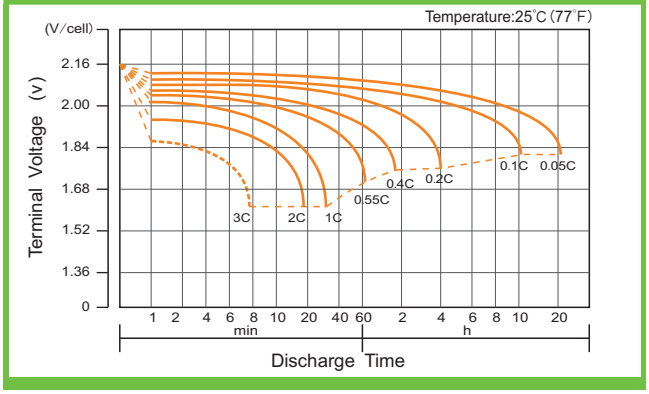
Cycle Life in Relation to Depth of Discharge



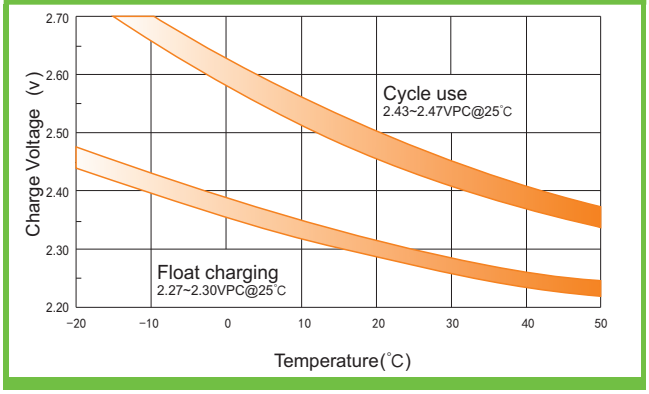
Storage Characteristics



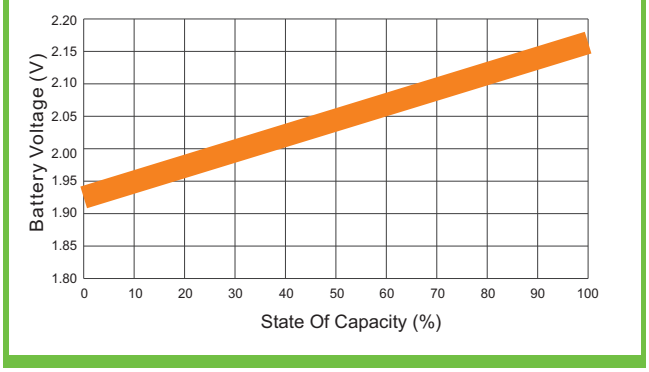
Discharge Characteristics Curve



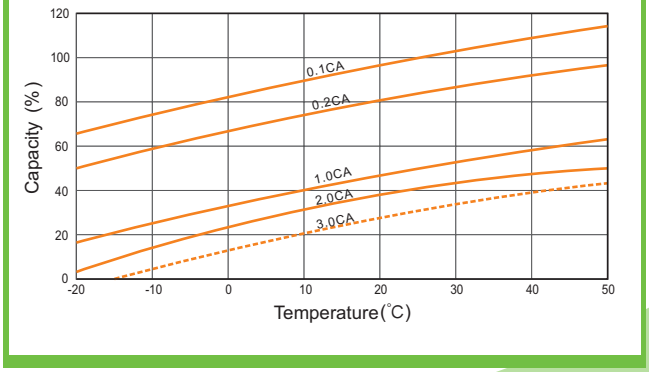
Relationship Between Charging Voltage and Temperature



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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Version 21A-0