



EV8-170S(8V170Ah)



Specification

Cells Per Unit	4
Voltage Per Unit	8
Capacity	170Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 34.5 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 2.1 mΩ
Terminal	F14(M8)/F22(M8)
Max. Discharge Current	1700A (5 sec)
Cold Cranking Ampere(CCA)	680A
Maxi. Charging Current	51.0A
Reference Capacity	C3 131.7AH
	C5 148.5AH
	C10 170.0AH
	C20 180.2AH
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

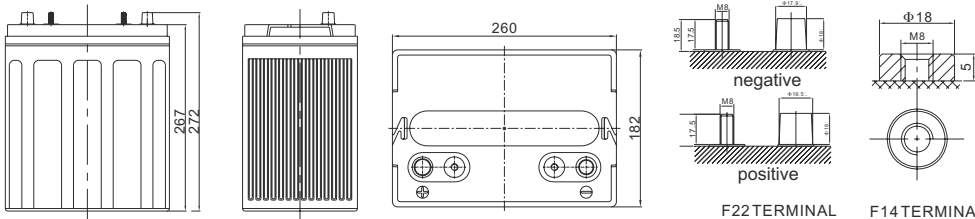
OHSAS 18001



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	392.0	309.9	188.0	104.9	61.9	48.0	37.7	32.1	21.6	17.9	9.38
1.65V	370.4	296.2	180.5	101.3	60.0	46.5	36.7	31.3	21.3	17.7	9.23
1.70V	341.0	277.5	172.5	98.0	58.0	45.3	35.7	30.5	21.0	17.4	9.12
1.75V	312.1	258.2	164.9	94.4	56.0	43.9	34.8	29.7	20.7	17.2	9.01
1.80V	282.6	238.4	157.6	90.8	54.0	42.5	33.8	28.9	20.4	17.0	8.92
1.85V	230.9	197.8	135.7	81.5	49.4	39.3	31.4	27.0	19.1	16.0	8.47

Constant Power Discharge Characteristics : WPC(25°C)

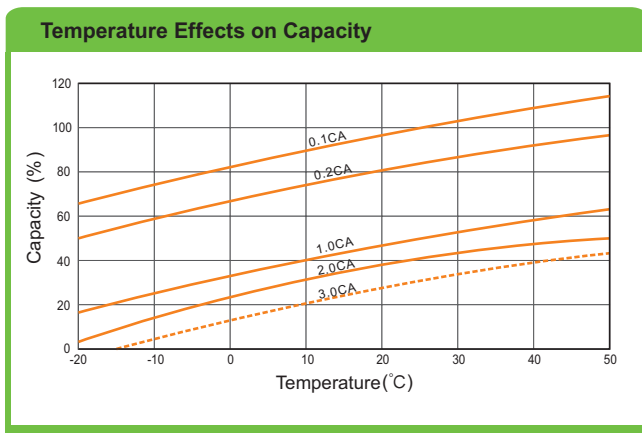
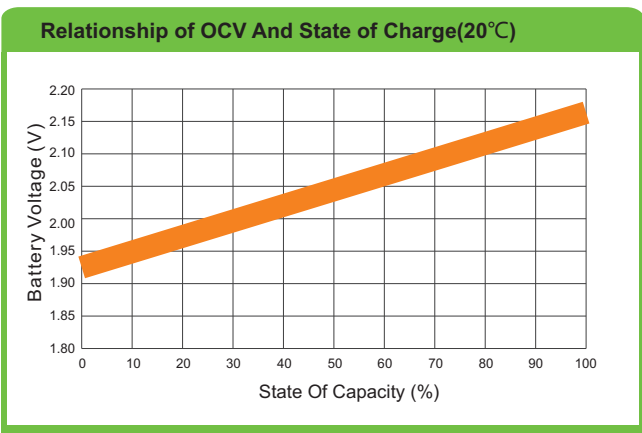
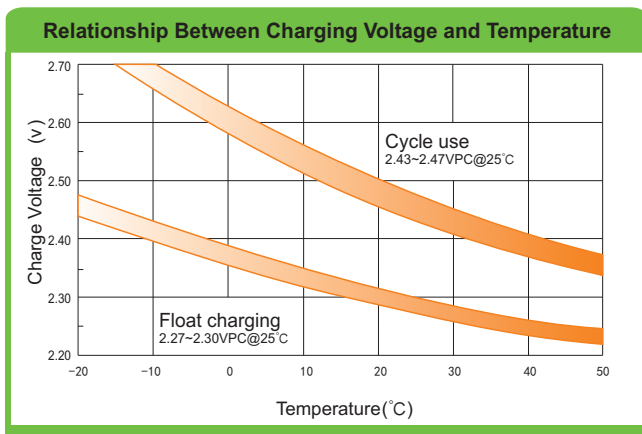
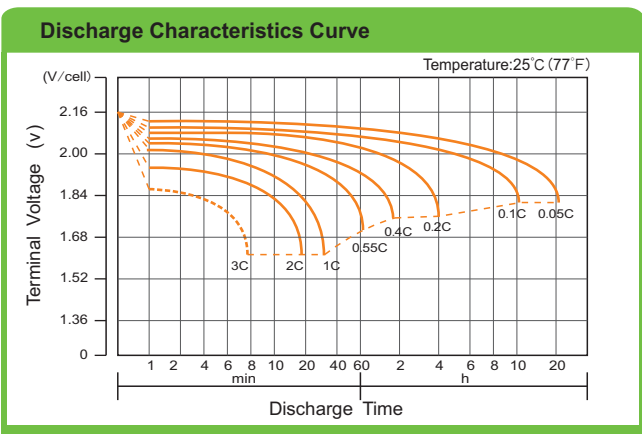
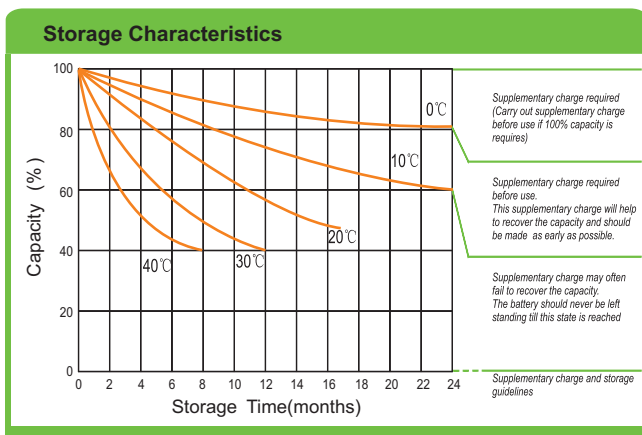
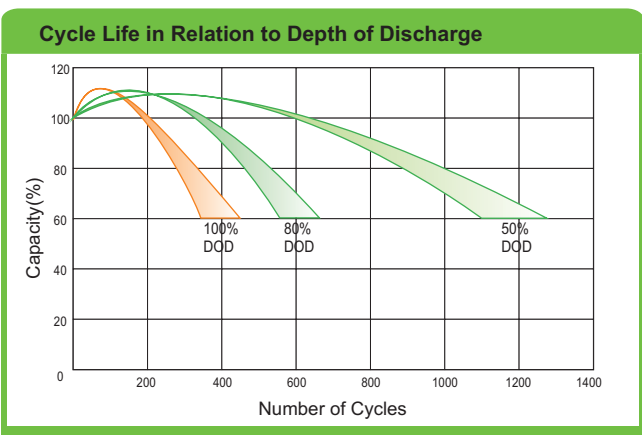
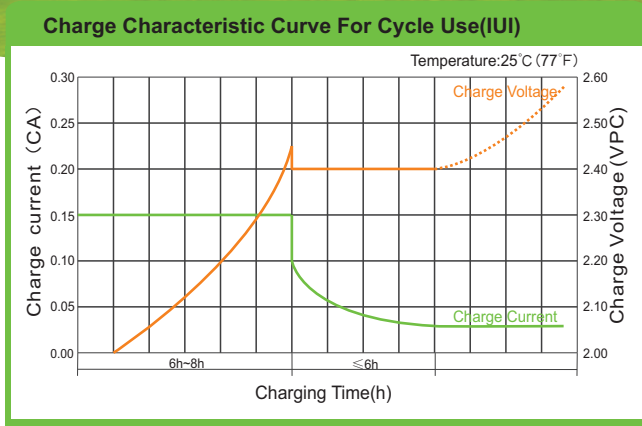
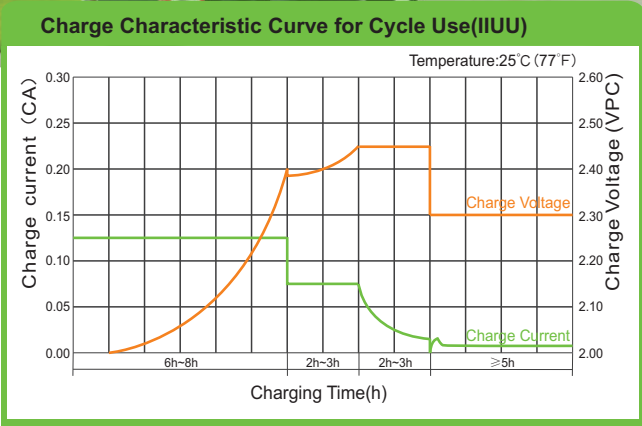
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	666.3	541.7	341.4	197.1	117.4	91.7	72.4	61.9	42.1	35.3	18.5
1.65V	641.8	525.6	331.2	191.5	114.2	89.2	70.7	60.5	41.8	34.9	18.2
1.70V	601.7	499.6	319.8	186.4	111.1	87.2	69.1	59.1	41.2	34.4	18.0
1.75V	560.7	471.7	308.8	180.7	107.7	84.9	67.6	57.8	40.7	34.0	17.8
1.80V	516.4	441.7	298.1	174.8	104.3	82.6	65.8	56.6	40.1	33.6	17.7
1.85V	429.5	371.7	259.3	157.7	96.1	76.7	61.4	52.9	37.7	31.7	16.8

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



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