EV6-200S(6V200Ah)

RITAR®

Specification

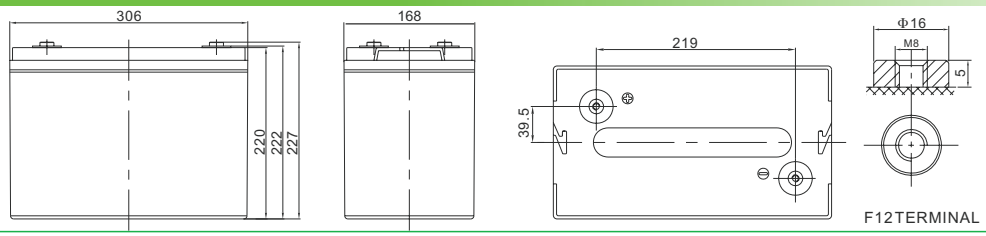
Cells Per Unit	3
Voltage Per Unit	6
Capacity	200Ah@20hr-rate to 1.75V per cell @25℃
Weight	Approx. 29.0 Kg (Tolerance±3.0%)
Internal Resistance	Approx. 2.2 mΩ
Terminal	F12(M8)
Max. Discharge Current	2000A (5 sec)
Cold Cranking Ampere(CCA)	720A
Maxi. Charging Current	60.0A
Reference Capacity	C3 146.4AH C5 165.0AH C10 189.0AH C20 200.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	14.6 V~14.8 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. 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



F12TERMINAL

Length	306±2mm (12.0 inches)
Width	168±2mm (6.61 inches)
Height	220±2mm (8.66 inches)
Total Height	227±2mm (8.94 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

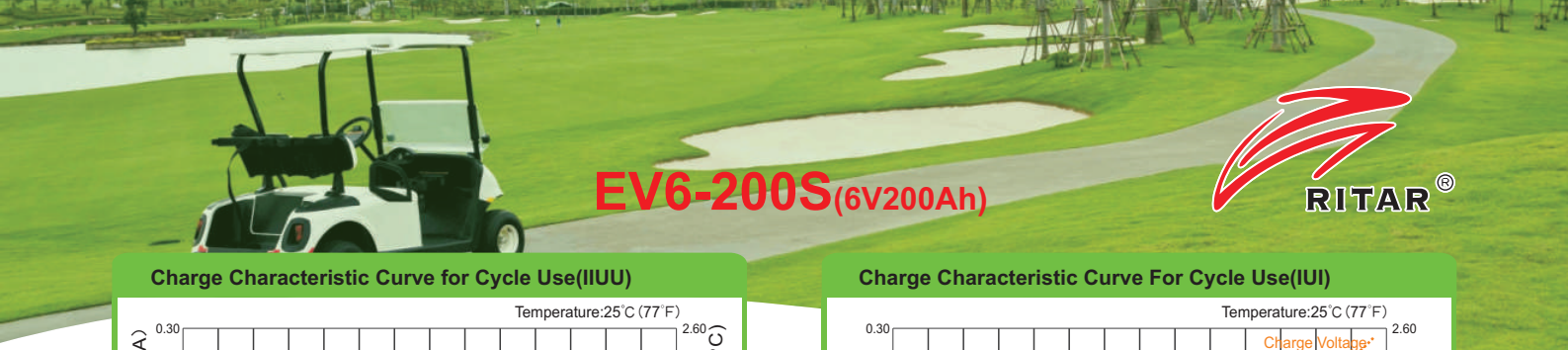
Constant Current Discharge Characteristics : A(25℃)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	433.8	344.4	209.9	116.5	68.8	53.3	41.9	35.7	24.0	19.9	10.4
1.65V	409.9	329.2	201.5	112.5	66.6	51.7	40.8	34.7	23.7	19.7	10.3
1.70V	377.3	308.4	192.6	108.9	64.4	50.3	39.7	33.8	23.3	19.4	10.1
1.75V	345.4	286.9	184.1	104.9	62.2	48.8	38.6	33.0	23.0	19.1	10.0
1.80V	312.7	265.0	175.9	100.9	59.9	47.3	37.5	32.1	22.6	18.9	9.91
1.85V	255.5	219.9	151.5	90.5	54.9	43.7	34.9	30.0	21.2	17.8	9.41

Constant Power Discharge Characteristics : WPC(25℃)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	737.3	602.0	381.2	219.0	130.4	101.8	80.4	68.7	46.8	39.2	20.5
1.65V	710.1	584.1	369.8	212.7	126.9	99.1	78.6	67.2	46.4	38.7	20.2
1.70V	665.8	555.2	357.0	207.0	123.4	96.8	76.7	65.7	45.8	38.2	20.0
1.75V	620.4	524.2	344.7	200.7	119.6	94.3	75.0	64.3	45.2	37.7	19.8
1.80V	571.4	490.9	332.8	194.1	115.9	91.8	73.1	62.8	44.5	37.3	19.6
1.85V	475.3	413.1	289.5	175.2	106.8	85.2	68.2	58.8	41.9	35.2	18.6

(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_{20} 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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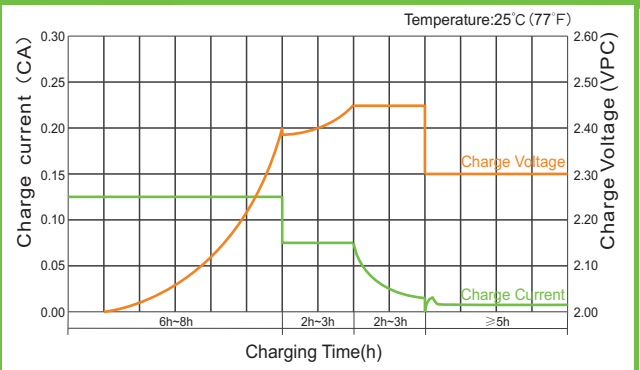
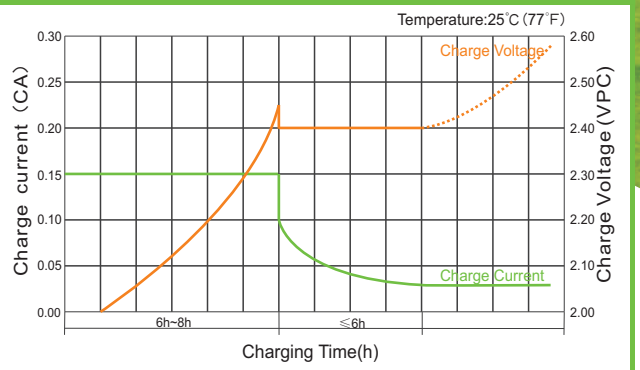
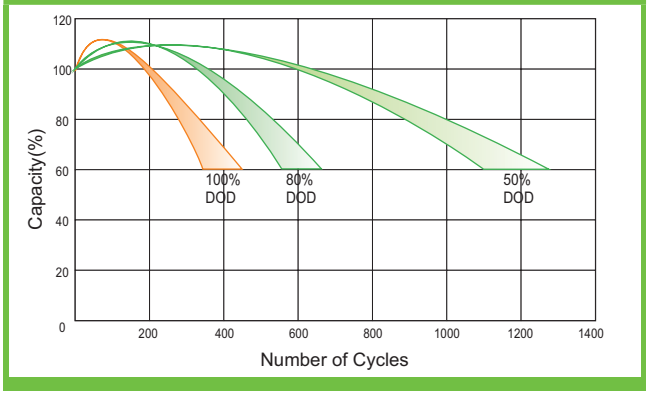
Charge Characteristic Curve for Cycle Use(IIUU)



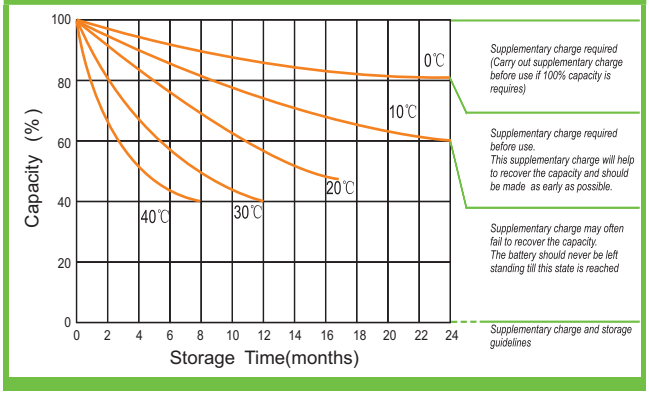
Charge Characteristic Curve For Cycle Use(IUI)



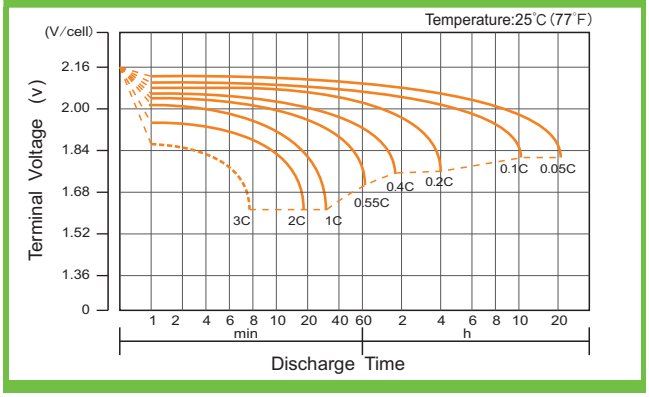
Cycle Life in Relation to Depth of Discharge



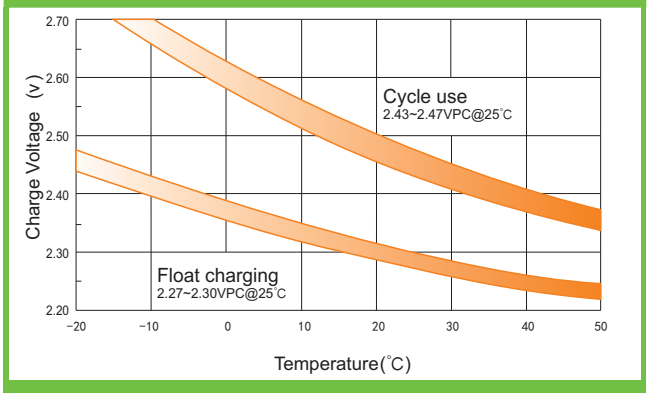
Storage Characteristics



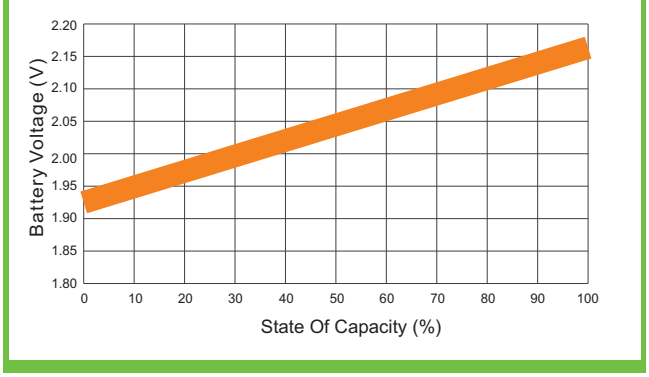
Discharge Characteristics Curve



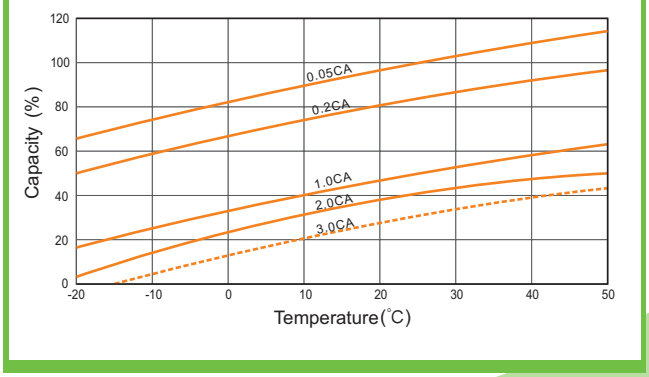
Relationship Between Charging Voltage and Temperature



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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