EV6-210(6V210Ah)

RITAR®

Specification

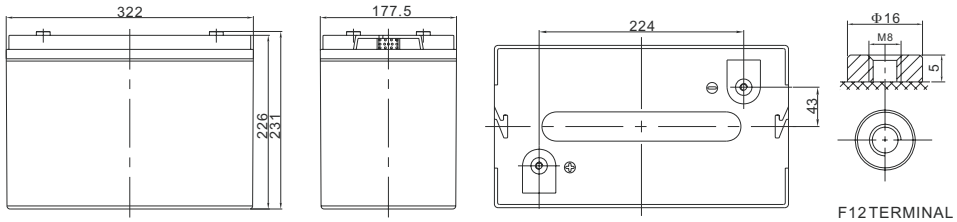
Cells Per Unit	3
Voltage Per Unit	6
Capacity	210Ah@10hr-rate to 1.80V per cell @25˚C
Weight	Approx. 32.0 Kg (Tolerance±3.0%)
Internal Resistance	Approx. 2.2 mΩ
Terminal	F12(M8)
Max. Discharge Current	2100A (5 sec)
Cold Cranking Ampere(CCA)	760A
Maxi. Charging Current	63.0A
Reference Capacity	C3 162.6AH C5 183.5AH C10 210.0AH C20 222.0AH
Float Charging Voltage	6.8 V~6.9 V @ 25˚C Temperature Compensation: -3mV/˚C/Cell
Cycle Use Voltage	7.3 V~7.4 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



F12TERMINAL

Length	322±2mm (12.7 inches)
Width	177.5±2mm (6.99 inches)
Height	226±2mm (8.90 inches)
Total Height	231±2mm (9.09 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

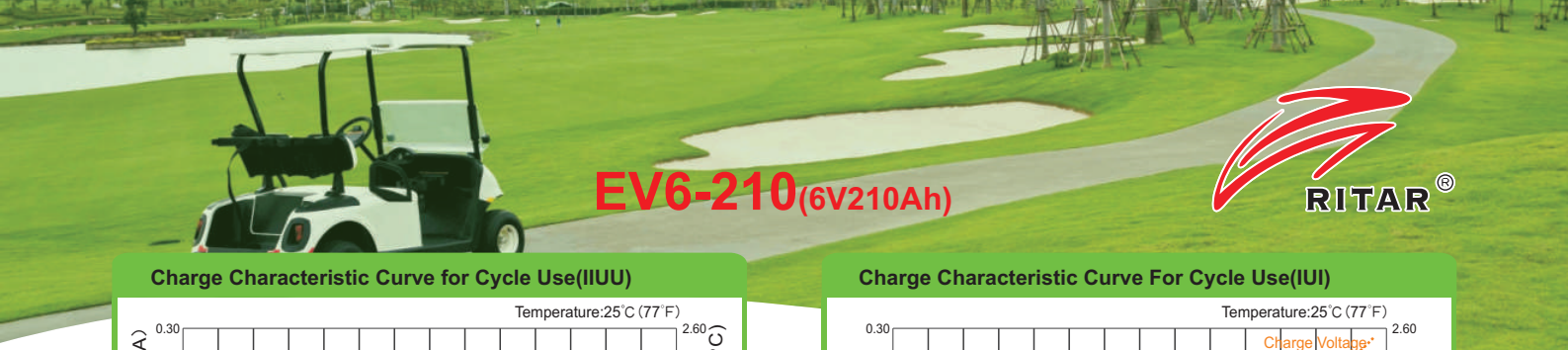
Constant Current Discharge Characteristics : A(25˚C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	381.0	232.2	129.6	76.5	59.3	46.6	39.7	26.7	22.2	11.6
1.65V	364.2	222.9	125.1	74.1	57.5	45.3	38.6	26.4	21.9	11.4
1.70V	341.1	213.1	121.1	71.6	55.9	44.1	37.6	25.9	21.6	11.3
1.75V	317.5	203.7	116.7	69.1	54.2	43.0	36.7	25.6	21.3	11.1
1.80V	293.1	194.7	112.2	66.7	52.6	41.7	35.7	25.2	21.0	11.0
1.85V	243.2	167.7	100.6	61.1	48.6	38.8	33.3	23.6	19.8	10.5

Constant Power Discharge Characteristics : WPC(25˚C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	666.0	421.8	243.5	145.0	113.2	89.5	76.4	52.1	43.5	22.8
1.65V	646.2	409.2	236.5	141.1	110.2	87.4	74.7	51.6	43.1	22.5
1.70V	614.3	395.0	230.3	137.2	107.7	85.3	73.0	50.9	42.5	22.2
1.75V	579.9	381.5	223.2	133.0	104.9	83.4	71.5	50.3	42.0	22.0
1.80V	543.1	368.3	215.9	128.9	102.1	81.3	69.9	49.5	41.5	21.8
1.85V	457.0	320.3	194.8	118.7	94.8	75.9	65.4	46.6	39.1	20.7

(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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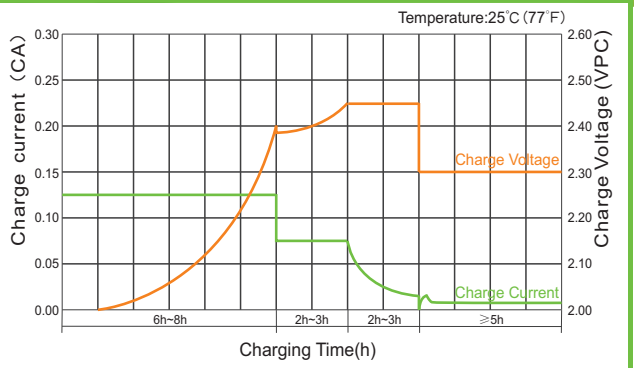
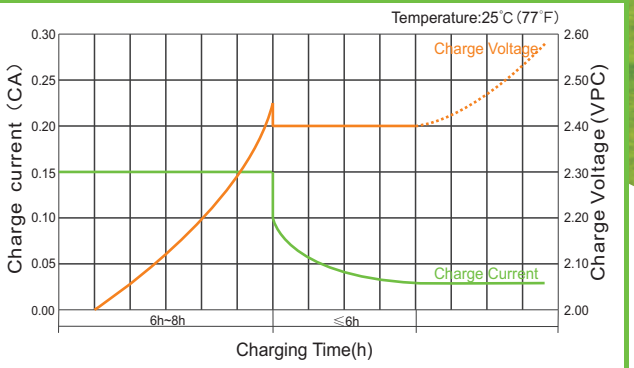
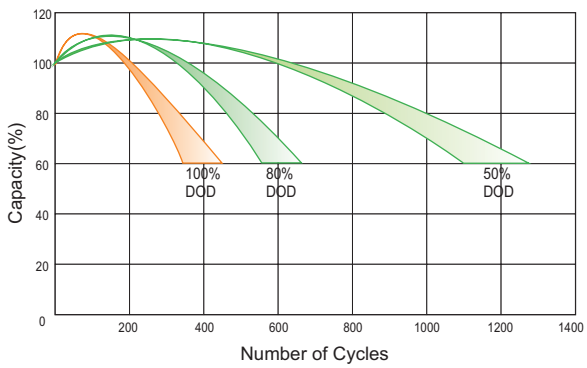
Charge Characteristic Curve for Cycle Use(IIUU)



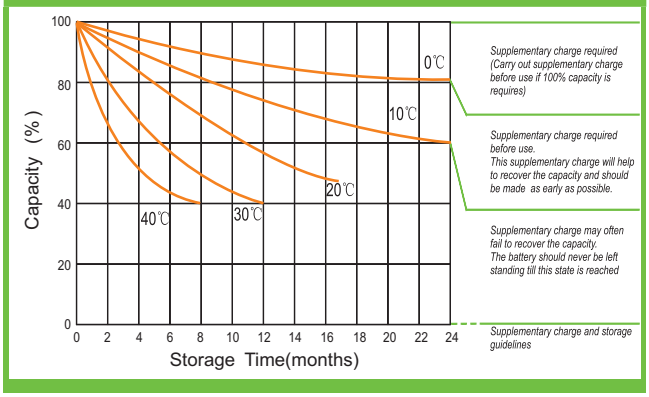
Charge Characteristic Curve For Cycle Use(IUI)



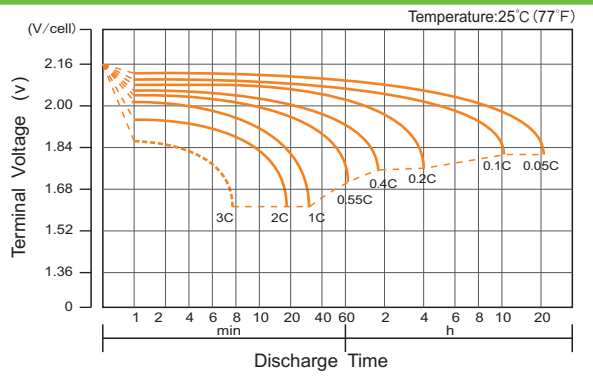
Cycle Life in Relation to Depth of Discharge



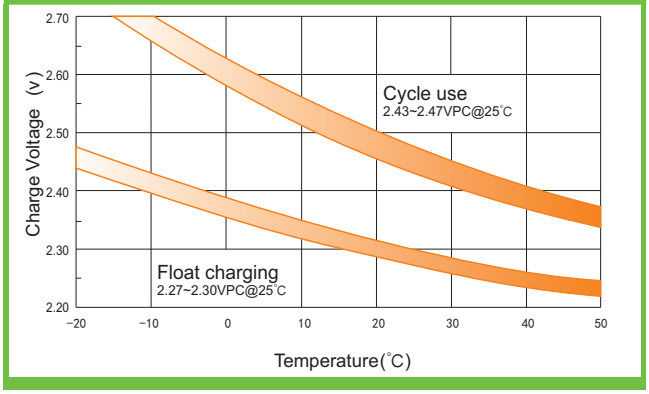
Storage Characteristics



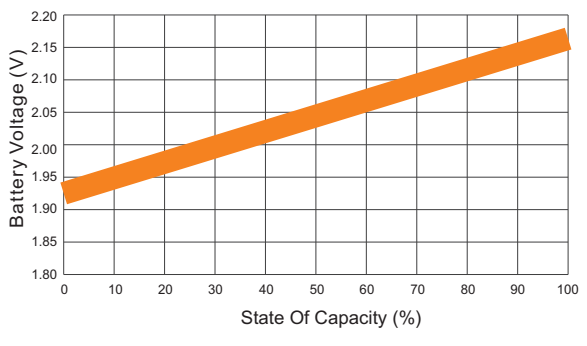
Discharge Characteristics Curve



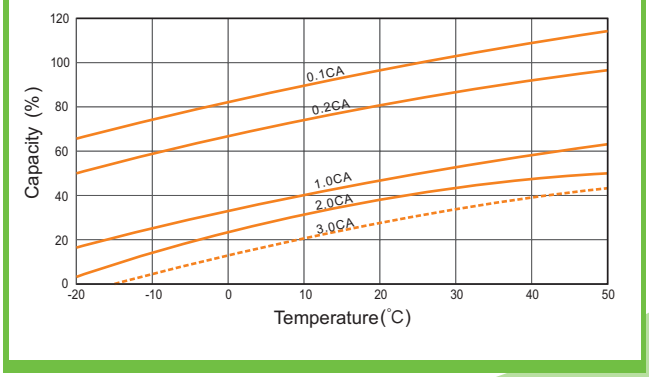
Relationship Between Charging Voltage and Temperature



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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