

EV6-205(6V206Ah)



Specification

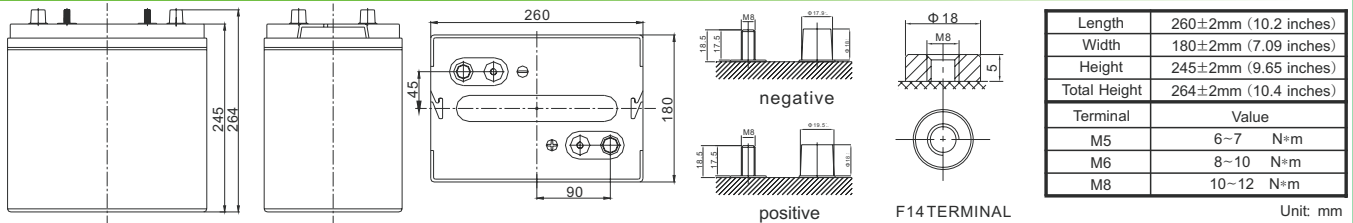


EV (Electric Vehicle) series is specially designed for frequent discharge deep cycle application. By using the specially designed active material, strong grids and thick plate construction, the EV series battery offers reliable performance in high load situations and could provide competitive cycle performance. 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.



Cells Per Unit	3
Voltage Per Unit	6
Capacity	206Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 29.0 Kg (Tolerance ±2%)
Internal Resistance	Approx. 2.5 mΩ
Terminal	F22(M8)/F14(M8)
Max. Discharge Current	2050A (5 sec)
Cold Cranking Ampere(CCA)	740A
Maximum Charging Current	61.5A
Reference Capacity	C3 158.7AH
	C5 180.5AH
	C10 195.0AH
	C20 206.0AH
Float Charging Voltage	6.80 V~6.90 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	7.30 V~7.40 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.

Dimensions



Constant Current Discharge Characteristics : A(25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	204.1	124.3	74.3	56.5	44.9	38.0	25.2	20.9	10.7
1.65V	199.8	121.9	73.0	55.7	44.3	37.5	24.9	20.7	10.6
1.70V	194.1	118.8	71.3	54.5	43.5	36.9	24.5	20.4	10.4
1.75V	186.4	114.6	69.0	52.9	42.4	36.1	24.0	20.0	10.3
1.80V	175.8	108.7	65.9	50.7	40.8	34.8	23.3	19.5	10.0
1.85V	160.9	100.4	61.3	47.6	38.5	33.1	22.2	18.7	9.63

Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	371	232	141	108	86.3	73.3	49.2	41.1	21.0
1.65V	368	230	139	107	85.5	72.7	48.8	40.8	20.8
1.70V	360	225	137	105	84.1	71.7	48.1	40.2	20.6
1.75V	349	218	133	102	82.2	70.2	47.2	39.5	20.3
1.80V	333	208	127	98.5	79.5	68.1	45.9	38.5	19.8
1.85V	307	194	119	92.9	75.3	64.9	43.9	37.0	19.1

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



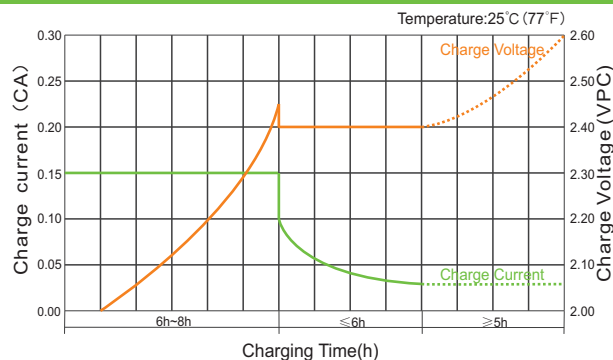
EV6-205(6V206Ah)



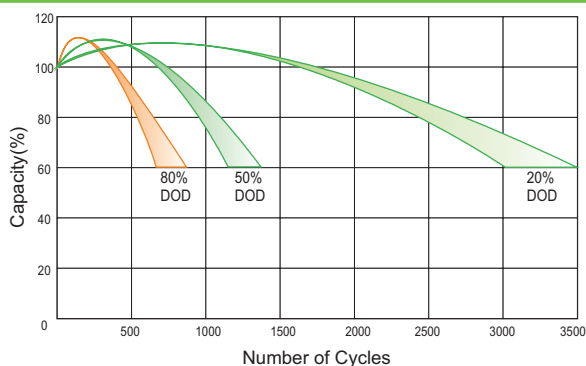
Charge Characteristic Curve for Cycle Use(IUUU)



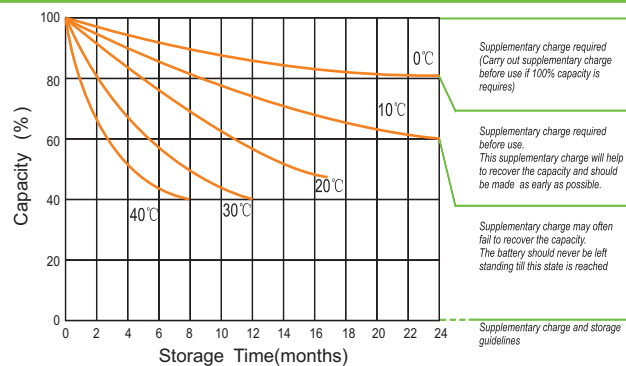
Charge Characteristic Curve For Cycle Use(III)



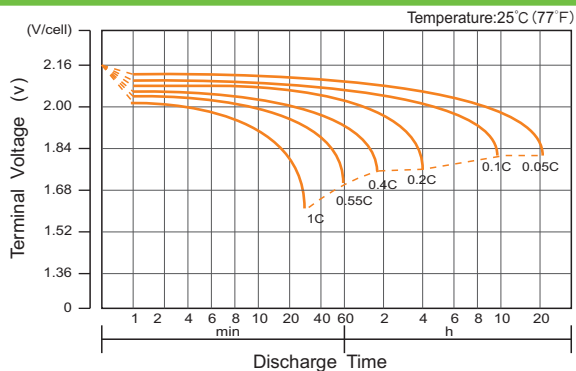
Cycle Life in Relation to Depth of Discharge



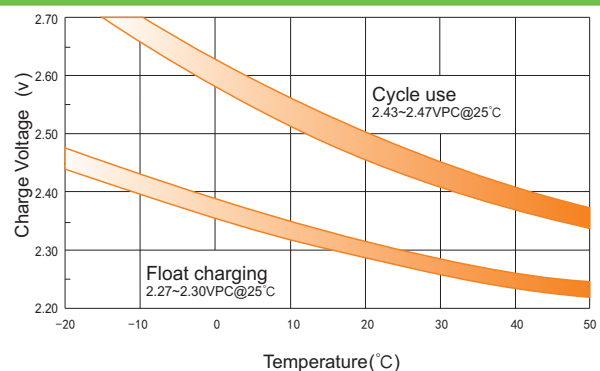
Storage Characteristics



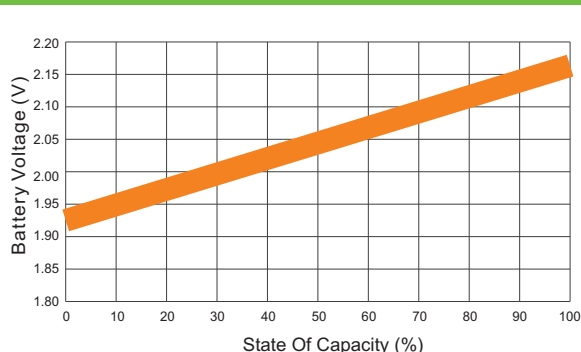
Discharge Characteristics Curve



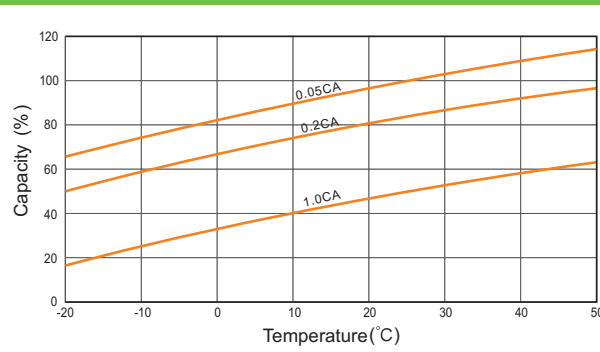
Relationship Between Charging Voltage and Temperature



Relationship of OCV And State of Charge(20°C)



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.