



EV6-180(6V180Ah)



Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	180Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 28.0 Kg (Tolerance ±2%)
Internal Resistance	Approx. 2.5 mΩ
Terminal	F12(M8)
Max. Discharge Current	1800A (5 sec)
Cold Cranking Ampere(CCA)	700A
Maximum Charging Current	54.0A
Reference Capacity	C3 139.5AH C5 158.5AH C10 171.0AH C20 180.0AH
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.



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.



ISO 9001



ISO 14001



OHSAS 18001

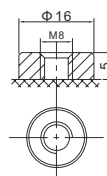
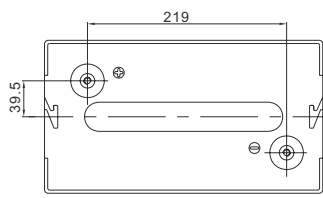
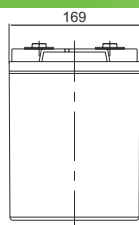
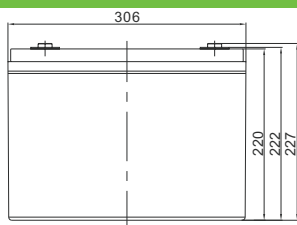


MH 28539



G4M20206-0910-E-16

Dimensions



F12 TERMINAL

Length	306±2mm (12.0 inches)
Width	169±2mm (6.65 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°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	179.2	109.1	65.2	49.6	39.5	33.4	22.1	18.4	9.35
1.65V	175.4	107.0	64.1	48.9	38.9	33.0	21.9	18.2	9.27
1.70V	170.4	104.3	62.6	47.9	38.2	32.4	21.5	17.9	9.16
1.75V	163.7	100.6	60.6	46.5	37.2	31.7	21.1	17.6	9.00
1.80V	154.4	95.4	57.8	44.6	35.8	30.6	20.5	17.1	8.78
1.85V	141.3	88.1	53.8	41.8	33.8	29.1	19.5	16.4	8.46

Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	325	204	124	94.8	75.7	64.3	43.2	36.1	18.4
1.65V	323	202	122	93.9	75.1	63.9	42.9	35.8	18.3
1.70V	316	198	120	92.2	73.9	62.9	42.3	35.3	18.1
1.75V	307	192	117	89.9	72.2	61.7	41.4	34.7	17.8
1.80V	292	183	112	86.5	69.8	59.8	40.3	33.8	17.4
1.85V	270	170	105	81.5	66.1	57.0	38.6	32.5	16.8

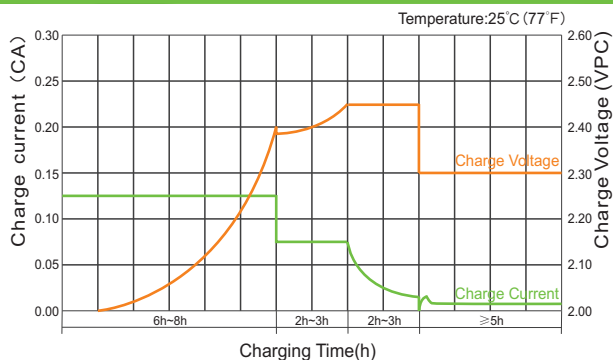
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.



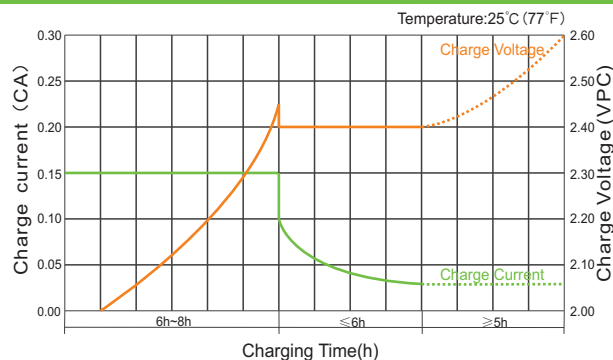
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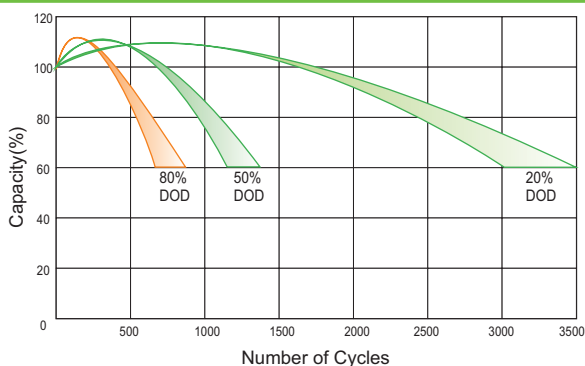
Charge Characteristic Curve for Cycle Use(IIUU)



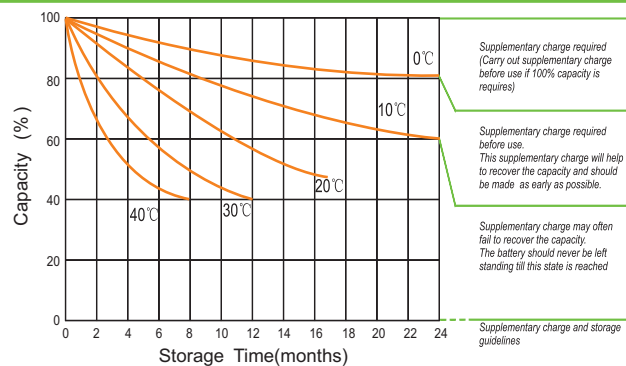
Charge Characteristic Curve For Cycle Use(III)



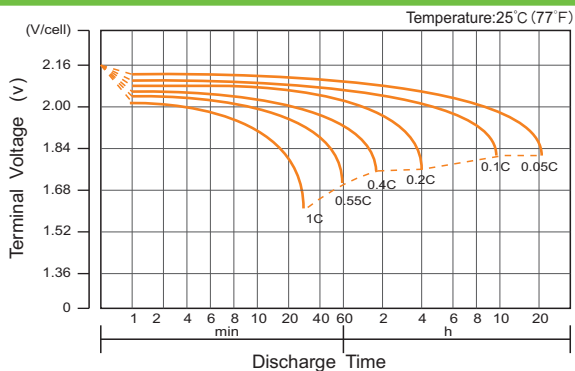
Cycle Life in Relation to Depth of Discharge



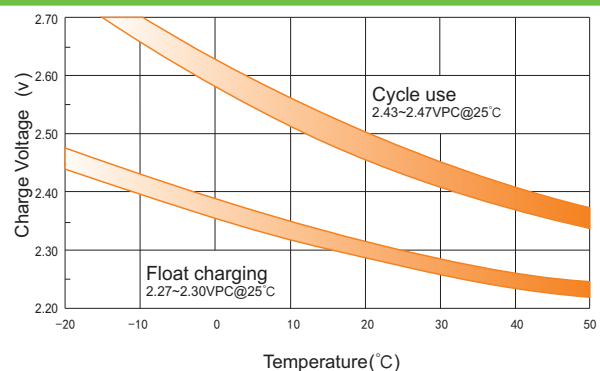
Storage Characteristics



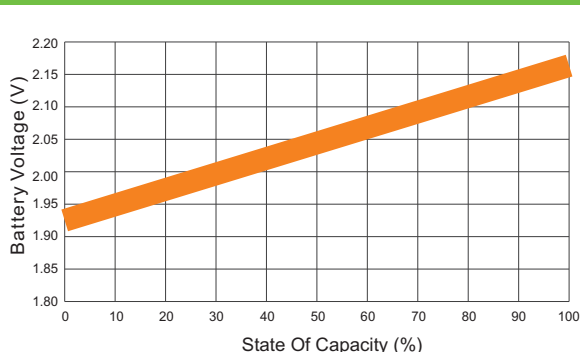
Discharge Characteristics Curve



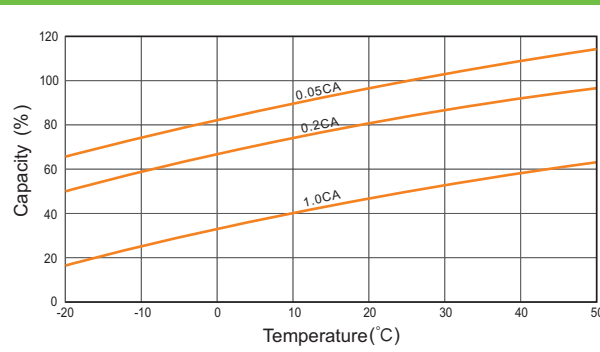
Relationship Between Charging Voltage and Temperature



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.