



EV6-400(6V400Ah)



Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	400Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 57.0 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 1.1 mΩ
Terminal	F22(M8)/F14(M8)
Max. Discharge Current	4000A (5 sec)
Cold Cranking Ampere(CCA)	800A
Maximum Charging Current	120 A
Reference Capacity	C3 306.6AH
	C5 351.5AH
	C10 380.0AH
	C20 400.0AH
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

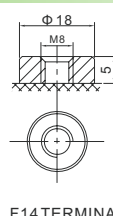
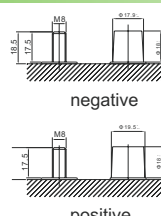
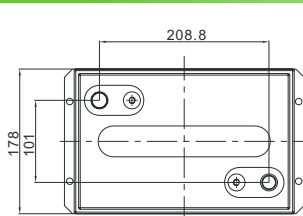
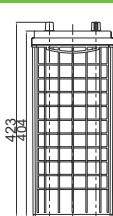
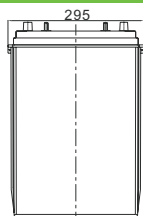


MH 28539



G4M20206-0910-E-16

Dimensions



Length	295±2mm (11.6 inches)
Width	178±2mm (7.01 inches)
Height	404±2mm (15.9 inches)
Total Height	423±2mm (16.7 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	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	376.8	227.6	139.0	109.2	86.8	74.2	49.2	40.8	20.8
1.65V	368.9	223.3	136.7	107.5	85.6	73.3	48.6	40.4	20.6
1.70V	358.4	217.6	133.5	105.3	84.0	72.0	47.9	39.8	20.3
1.75V	344.2	209.8	129.3	102.2	81.8	70.3	46.9	39.1	20.0
1.80V	324.7	199.1	123.3	98.0	78.8	68.0	45.5	38.0	19.5
1.85V	297.1	183.9	114.8	91.9	74.4	64.6	43.4	36.5	18.8

Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	684	426	264	209	167	143	96.0	80.2	40.9
1.65V	680	422	261	207	165	142	95.2	79.5	40.6
1.70V	664	413	256	203	162	140	93.9	78.5	40.2
1.75V	645	400	249	198	159	137	92.1	77.1	39.5
1.80V	614	381	238	190	154	133	89.5	75.1	38.6
1.85V	568	355	223	179	145	127	85.7	72.2	37.3

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



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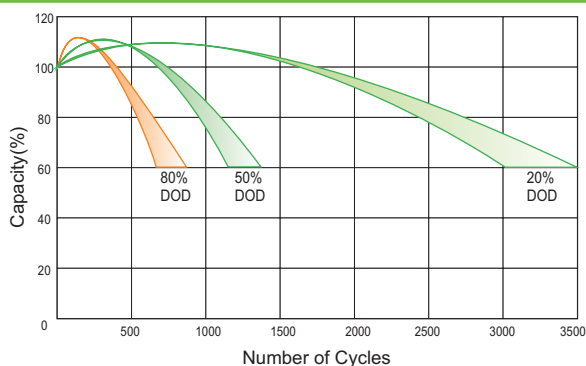
Charge Characteristic Curve for Cycle Use(IIUU)



Charge Characteristic Curve For Cycle Use(III)



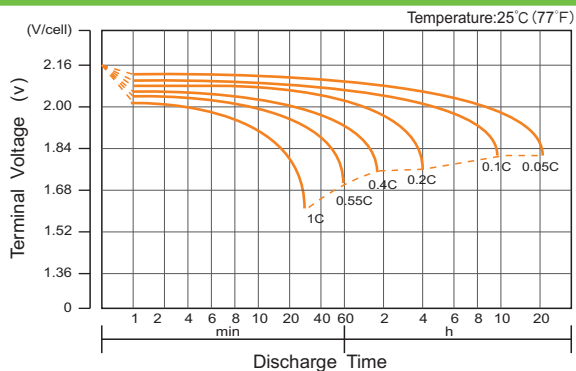
Cycle Life in Relation to Depth of Discharge



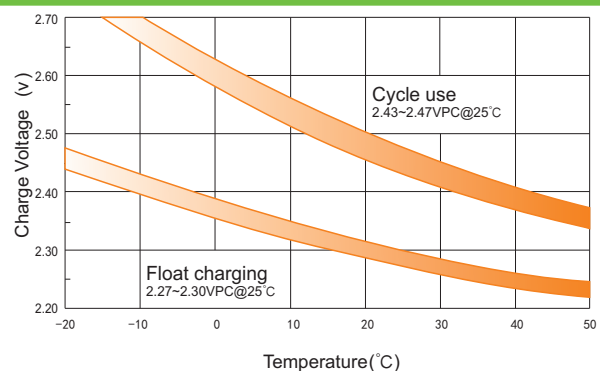
Storage Characteristics



Discharge Characteristics Curve



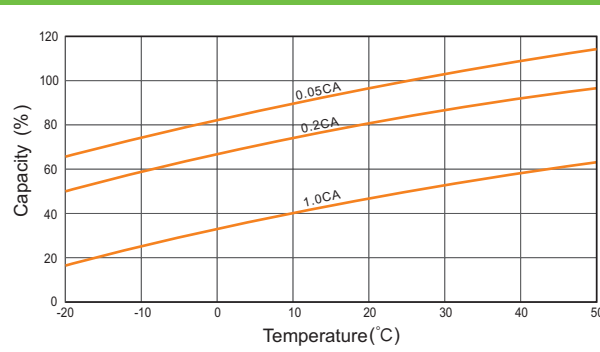
Relationship Between Charging Voltage and Temperature



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.