

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	260Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 77 Kg/169.75Lbs (Tolerance ± 2%)
Internal Resistance	Approx. 3.5 mΩ
Terminal	L6
Max. Discharge Current	2600A (5 sec)
Cold Cranking Ampere(CCA)	970A
Cranking Ampere(CA)	1660A
Maximum Charging Current	78A
Reserve Capacity	640min@25A to 1.75V/Cell(25°C) 151min@75A to 1.75V/Cell(25°C)
Reference Capacity	C10 260.0AH C20 270.4AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 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.



The series batteries provide superior high integrity and reliability. It is specially designed for frequent cyclic charge and discharge. By using strong grids, thick plate and specially active material are designed for repeated deep-discharge applications. The series batteries offer 30% more cyclic life than the standby series. It is suitable for solar and wind renewable energy storage, mobility and medical equipment, V, telecom, broadband and cable TV, UPS systems etc.



ISO 9001



ISO 14001



OHSAS 18001

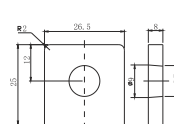
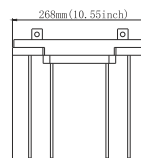
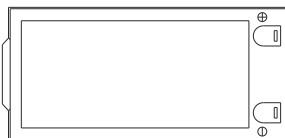
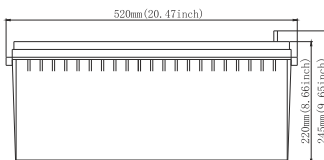


MH 60419



G4M20206-0910-E-16

Dimensions



Length	520±2mm (20.47 inches)
Width	268±2mm (10.55 inches)
Height	220±2mm (8.66 inches)
Total Height	245±2mm (9.65 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)

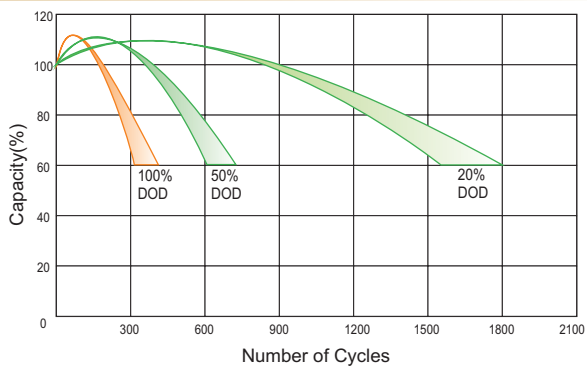
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	740.5	554.7	448.1	261.2	162.3	100.2	68.09	54.90	45.58	30.02	27.06	14.32
10.0V	719.1	527.8	438.9	257.9	160.1	98.18	66.83	54.12	45.17	29.90	26.79	14.06
10.2V	697.8	509.2	432.0	253.9	158.6	97.14	66.24	53.58	44.87	29.63	26.53	13.79
10.5V	626.6	469.9	411.3	246.9	156.7	95.87	65.65	52.79	44.50	29.37	26.26	13.52
10.8V	565.6	428.5	379.2	238.8	154.5	95.08	64.88	50.98	44.28	29.25	26.02	13.38
11.1V	482.9	382.9	340.1	229.7	150.8	91.25	63.61	50.25	43.96	29.01	25.72	12.84

Constant Power Discharge Characteristics : W(25°C)

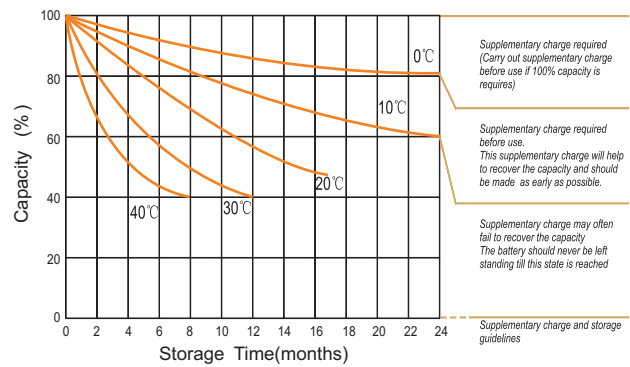
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	7660	5908	4929	2,990	1,881	1,174	802.0	657.2	546.0	359.5	324.4	172.5
10.0V	7509	5727	4850	2,959	1,863	1,160	790.0	647.9	541.1	358.1	321.9	169.5
10.2V	7423	5576	4795	2,934	1,852	1,152	786.0	641.9	537.8	355.4	319.0	166.4
10.5V	6758	5192	4574	2,874	1,841	1,137	780.0	633.2	533.5	352.4	315.9	163.3
10.8V	6155	4786	4228	2,806	1,817	1,129	771.0	611.8	531.1	350.9	312.8	161.7
11.1V	5406	4327	3806	2,729	1,790	1,086	758.0	603.1	529.1	348.4	309.4	155.9

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

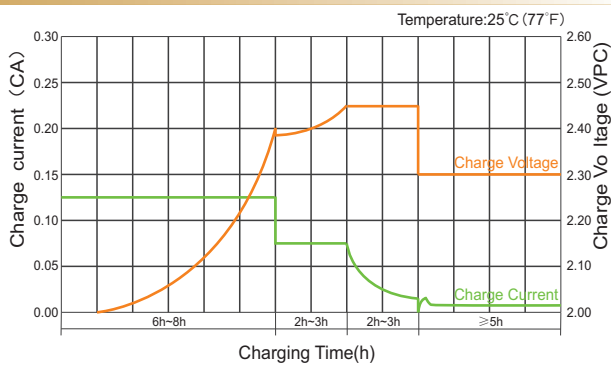
Cycle Life in Relation to Depth of Discharge



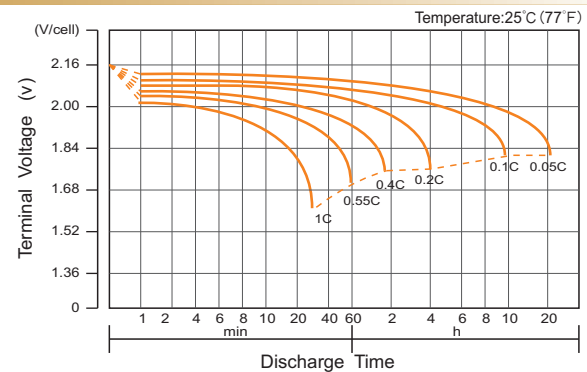
Storage Characteristics



Charge Characteristic Curve for Cycle Use(IUUU)



Discharge Characteristics Curve



CHARGE VOLTAGES

Charge Stage	Battery Voltage			
	12V	24V	36V	48V
Bulk	14.6	29.2	43.8	58.4
Absorption	14.6	29.2	43.8	58.4
Float	13.6	27.2	40.8	54.4
TC Factor: (-3mV/°C/cell) or (-4mV/°C/cell)				

Capacity Factors With Different Temperature

Battery Type	-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL 6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
Battery 2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM 6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
Battery 2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final D ischarge Voltage V /cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤0.2C	0.2C < (A) < 1.0C	(A) ≥1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h+2.4-2.45V/cellx24h, Max. Current 0.3C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.3Cx4h

Maintenance & Cautions

Cycle Service

- ▶ Avoid battery overcharge, especially in series connection use.
- ▶ Charge with recommended voltage. Ensure battery fully recharges. In general, recharge capacity should be 1.1-1.15 times discharge capacity.
- ▶ Effect of temperature on cycle charge voltage: -4mV/°C / Cell
- ▶ The length of cycle service will be affected by depth of discharge, ambient temperature, discharge rate, and the manner in which the battery is recharged. Generally speaking, the most important factor is depth of discharge.

Float Service:

- ▶ Every month, recommend inspection of every battery's voltage.
 - ▶ Every three months, recommend a one time equalization charge.
- Equalization charge method:
- Discharge - 100% rate capacity discharge
 - Charge - Max. current 0.3C, constant voltage 2.4-2.45V/Cell charge 24h.
 - ▶ Effect of temperature on float charge voltage: -3mV/°C/Cell.
 - ▶ Length of service life will be affected by the number of discharge cycles, depth of discharge, ambient temperature, and charging voltage