

LEAD ACID (DEEP CYCLE) BATTERY

MG225-12

MG (Deep Cycle GEL) series is hybrid GEL battery with 12 years floating design life, it is ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids' high purity lead and patented Gel electrolyte, the MG series offers excellent recovery capability after deep discharge under frequent cyclic discharge use, and can deliver 450 cycles at 100% DOD Suitable for solar & wind system, CATV, marine, RV and deep discharge UPS, and telecommunication, etc.



OHSAS 18001

ISO 14001

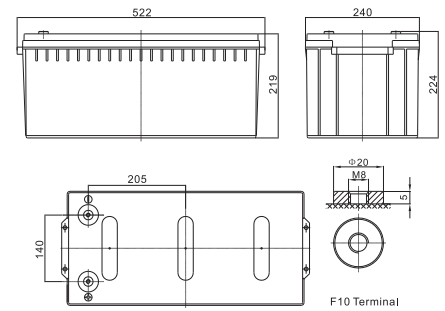
ISO 9001



MADE IN VIETNAM / CHINA

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	225Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 65.0 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 3.7 mΩ
Terminal	F10(M8)/F16(M8)
Max. Discharge Current	2250A (5 sec)
Design Life	12 years (floating charge)
Maximum Charging Current	67.5 A
Reference Capacity	C3 165.6AH C5 188.0AH C10 214.0AH C20 225.0AH
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.



Length	522±2mm (20.6 inches)
Width	240±2mm (9.45 inches)
Height	219±2mm (8.62 inches)
Total Height	224±2mm (8.82 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)

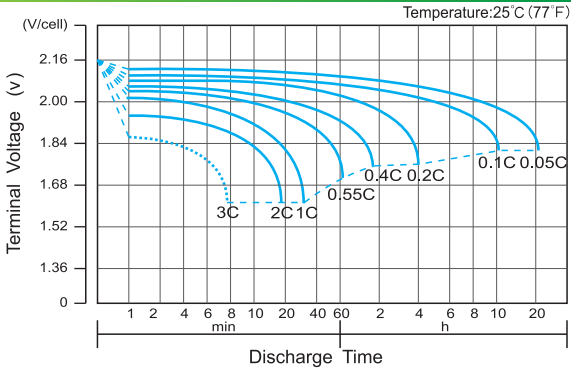
F.V./Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	446.3	351.7	203.9	128.0	79.1	58.9	47.1	39.7	27.1	22.9	11.7
1.65V	431.4	341.2	199.6	125.6	77.7	58.0	46.4	39.2	26.8	22.7	11.6
1.70V	412.0	327.4	194.0	122.4	75.9	56.8	45.6	38.5	26.4	22.4	11.4
1.75V	386.0	308.8	186.3	118.0	73.5	55.2	44.4	37.6	25.8	22.0	11.2
1.80V	351.3	283.8	175.7	112.0	70.1	52.9	42.7	36.4	25.0	21.4	11.0
1.85V	303.9	249.3	160.8	103.4	65.3	49.6	40.3	34.5	23.9	20.5	10.6

Constant Power Discharge Characteristics : WPC(25°C)

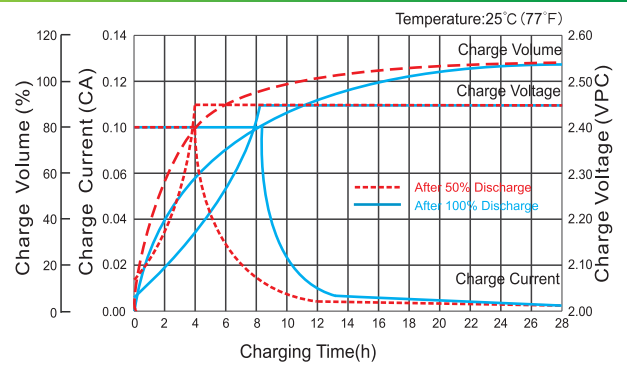
F.V./Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	798	647	390	252	158	118	95.1	80.5	55.7	47.5	24.2
1.65V	792	641	387	250	156	117	94.3	79.9	55.2	47.1	24.1
1.70V	765	621	379	244	153	115	92.8	78.7	54.5	46.5	23.8
1.75V	730	594	367	237	149	112	90.7	77.2	53.4	45.7	23.4
1.80V	676	553	350	226	143	108	87.6	74.8	51.9	44.5	22.9
1.85V	595	493	323	210	134	102	83.1	71.3	49.7	42.7	22.1

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

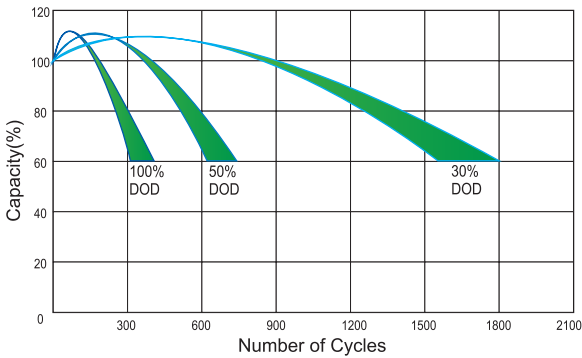
Discharge Characteristics Curve



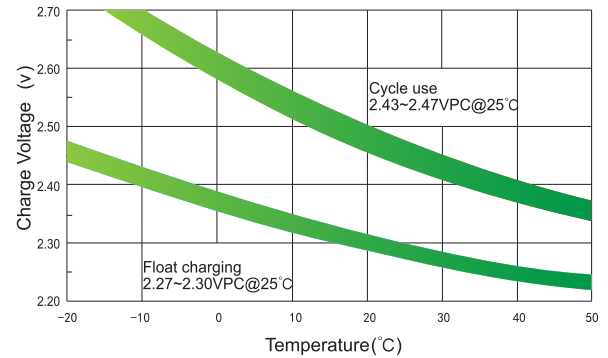
Charge Characteristic Curve for Cycle Use(IU)



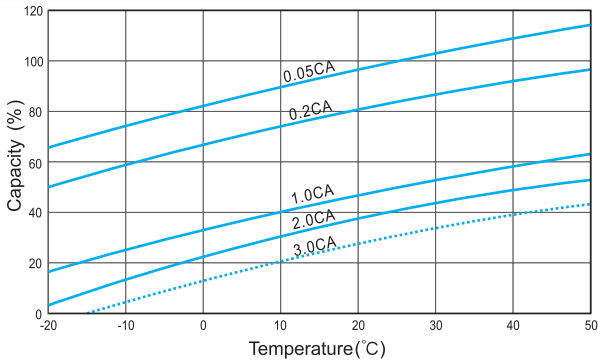
Cycle Life in Relation to Depth of Discharge



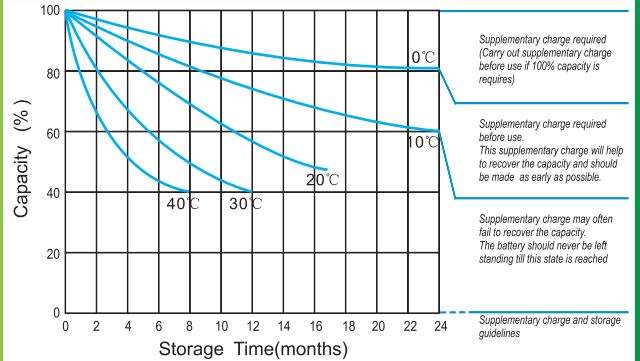
Relationship Between Charging Voltage and Temperature



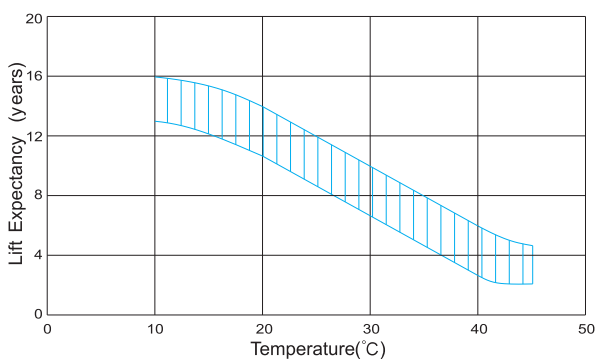
Temperature Effects on Capacity



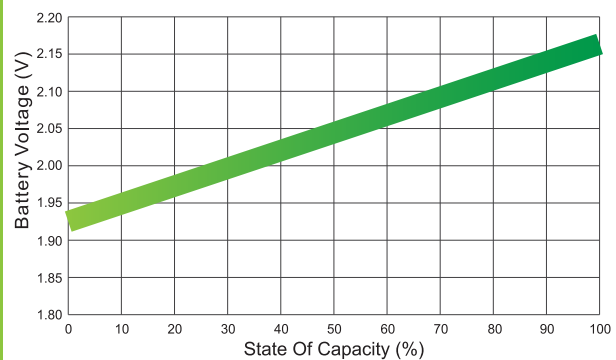
Storage Characteristics



Effect of Temperature on Long Term Life



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



(Note) All above information shall be changed without prior notice. Ritar reserves the right to explain and update the latest information.

