

DG12-200A(12V200Ah)



Specification

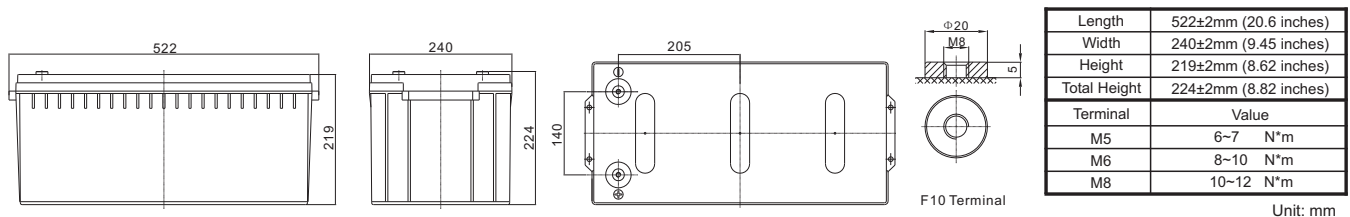
Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 59.0 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 4 mΩ
Terminal	F10(M8)/F16(M8)
Max. Discharge Current	2000A (5 sec)
Design Life	12 years (floating charge)
Maximum Charging Current	60.0 A
Reference Capacity	C3 147.3AH C5 167.0AH C10 190.0AH C20 200.0AH
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.



DG-A series is hybrid GEL battery, 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 DG-A 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.



Dimensions



Constant Current Discharge Characteristics : A(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	388.7	309.5	179.4	113.8	70.3	52.4	41.8	35.3	24.1	20.4	10.4
1.65V	375.8	300.3	175.7	111.7	69.1	51.6	41.3	34.8	23.8	20.2	10.3
1.70V	358.9	288.1	170.7	108.8	67.5	50.5	40.5	34.2	23.4	19.9	10.2
1.75V	336.3	271.8	163.9	104.9	65.3	49.1	39.5	33.4	22.9	19.5	10.0
1.80V	306.0	249.8	154.6	99.6	62.3	47.0	38.0	32.3	22.3	19.0	9.75
1.85V	264.7	219.4	141.5	92.0	58.0	44.1	35.9	30.7	21.3	18.2	9.40

Constant Power Discharge Characteristics : WPC(25°C)

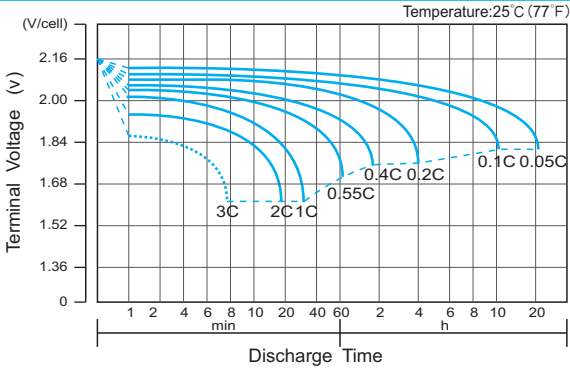
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	696	570	343	224	140	105	84.6	71.6	49.5	42.2	21.5
1.65V	690	564	341	222	139	104	83.8	71.0	49.1	41.9	21.4
1.70V	667	546	333	217	136	102	82.5	70.0	48.4	41.3	21.1
1.75V	636	523	323	210	132	99.9	80.6	68.6	47.5	40.6	20.8
1.80V	589	487	308	201	127	96.1	77.9	66.5	46.2	39.5	20.3
1.85V	518	434	285	187	119	90.6	73.8	63.4	44.2	38.0	19.6

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

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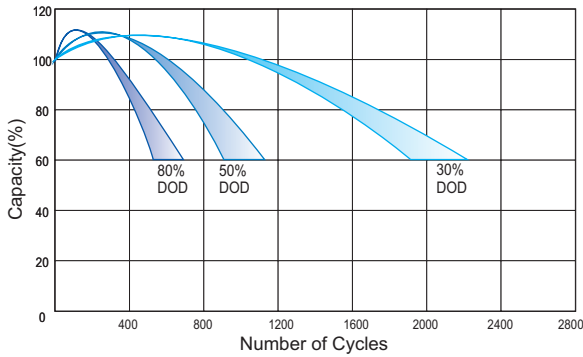
Discharge Characteristics Curve



Charge Characteristic Curve for Cycle Use(IU)



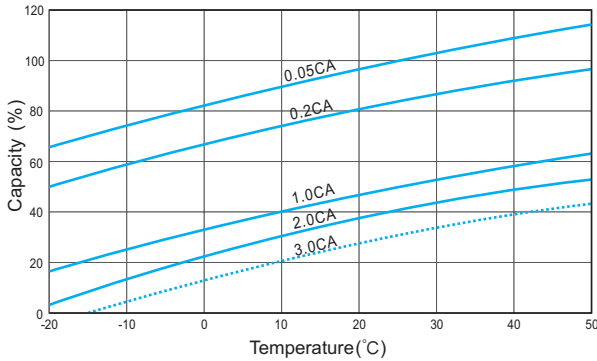
Cycle Life in Relation to Depth of Discharge



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.