

# DG12-200(12V200Ah)



## Specification

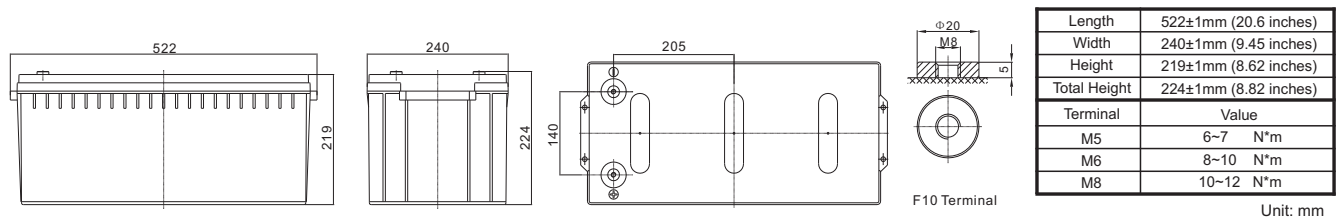
Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 60.0 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 5.2 mΩ
Terminal	F16(M8)/F10 (M8)
Max. Discharge Current	2000A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	40.0A
Reference Capacity	C3 136.5AH C5 151.5AH C10 174.0AH C20 200.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.2 V~14.4 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°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 (Deep Cycle GEL) series is pure GEL battery with 15 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 DG 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	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	273.6	183.4	111.8	66.9	46.2	37.9	31.0	21.4	18.1	11.0
1.65V	268.0	181.8	111.3	66.4	46.1	37.7	30.8	21.2	17.9	10.6
1.70V	263.8	180.7	110.2	65.9	45.7	37.5	30.7	21.0	17.7	10.3
1.75V	254.1	177.9	109.2	65.4	45.5	37.2	30.3	20.8	17.5	10.0
1.80V	237.0	171.7	106.6	64.2	44.3	36.3	29.7	20.5	17.4	9.40
1.85V	215.0	162.4	101.3	61.4	42.3	34.6	28.5	19.6	16.8	9.00

### Constant Power Discharge Characteristics : WPC(25°C)

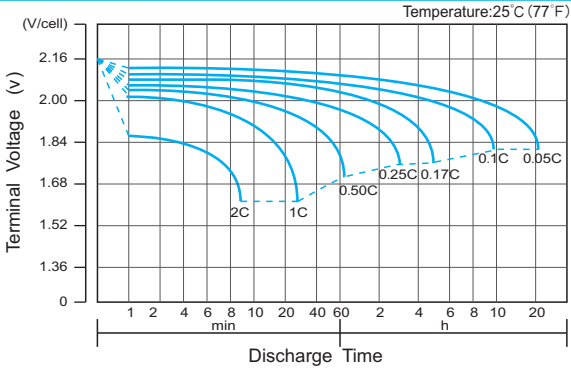
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	502	348	215	131	91.8	75.3	61.7	42.5	36.0	19.5
1.65V	494	344	215	131	91.7	75.2	61.5	42.3	35.8	19.1
1.70V	488	345	213	130	91.3	75.0	61.3	42.0	35.4	18.8
1.75V	471	341	211	129	91.0	74.3	60.6	41.7	35.1	18.4
1.80V	440	330	207	127	88.5	72.6	59.5	41.0	34.7	18.1
1.85V	401	313	198	123	84.7	69.1	56.9	39.3	33.7	17.0

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

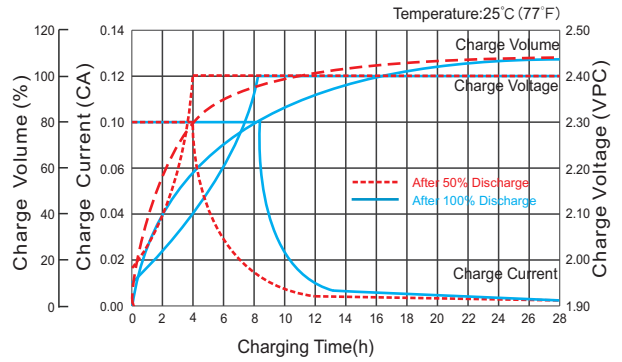
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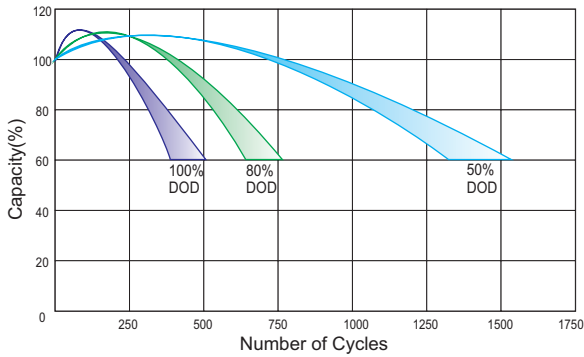
## Discharge Characteristics Curve



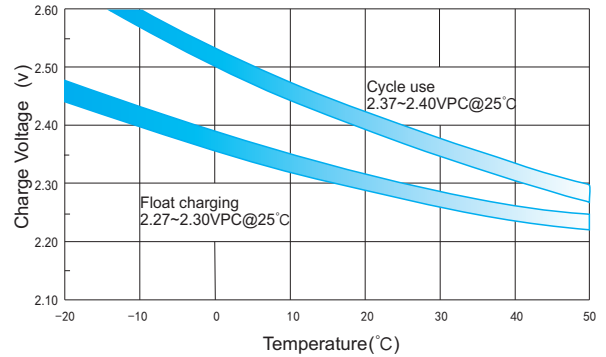
## Charge Characteristic Curve for Cycle Use(IU)



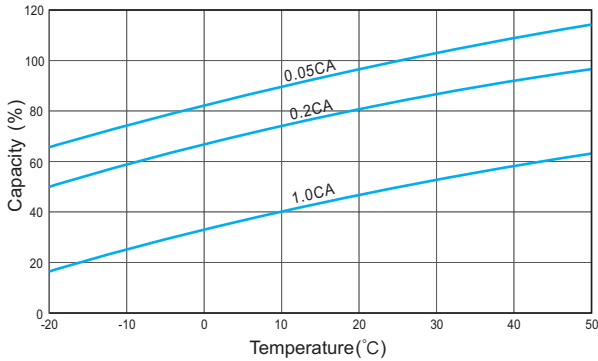
## Cycle Life in Relation to Depth of Discharge



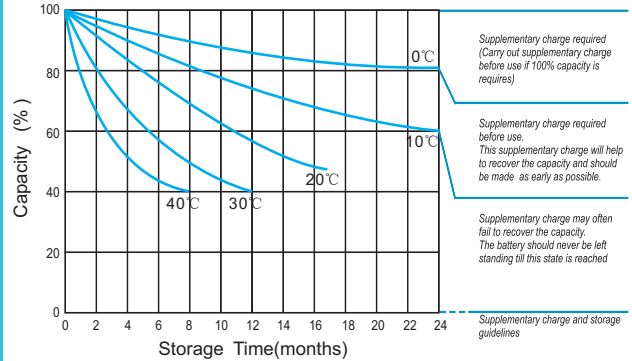
## Relationship Between Charging Voltage and Temperature



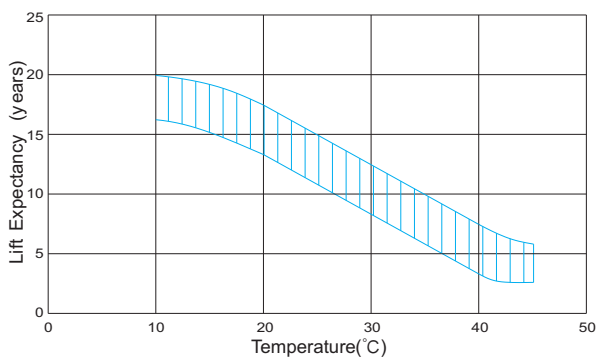
## Temperature Effects on Capacity



## Storage Characteristics



## Effect of Temperature on Long Term Life



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

