

DG6-200(6V200Ah)



Specification

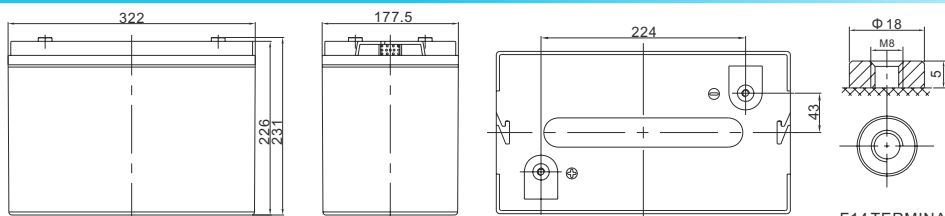


DG (Deep Cycle GEL) series is pure GEL battery with 15 years floating design life , it is ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids, high purity lead and patented Gel electrolyte, the DG series offers excellent recovery capability after 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.



Cells Per Unit	3
Voltage Per Unit	6
Capacity	200Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 29.0 Kg (Tolerance ±2%)
Internal Resistance	Approx. 4 mΩ
Terminal	F16(M8)/F14(M8)
Max. Discharge Current	2000A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	40.0 A
Reference Capacity	C3 136.5AH C5 151.5AH C10 174.0AH C20 200.0AH
Float Charging Voltage	6.80 V~6.90 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	7.10 V~7.20 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.

Dimensions



Length	322±1mm (12.7 inches)
Width	177.5±1mm (6.99 inches)
Height	226±1mm (8.90 inches)
Total Height	231±1mm (9.09 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

F14 TERMINAL

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	340.9	273.6	183.4	111.8	66.9	46.2	37.9	31.0	21.4	18.1	11.0
1.65V	324.4	268.0	181.8	111.3	66.4	46.1	37.7	30.8	21.2	17.9	10.6
1.70V	312.9	263.8	180.7	110.2	65.9	45.7	37.5	30.7	21.0	17.7	10.3
1.75V	292.2	254.1	177.9	109.2	65.4	45.5	37.2	30.3	20.8	17.5	10.0
1.80V	269.6	237.0	171.7	106.6	64.2	44.3	36.3	29.7	20.5	17.4	9.40
1.85V	243.7	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)

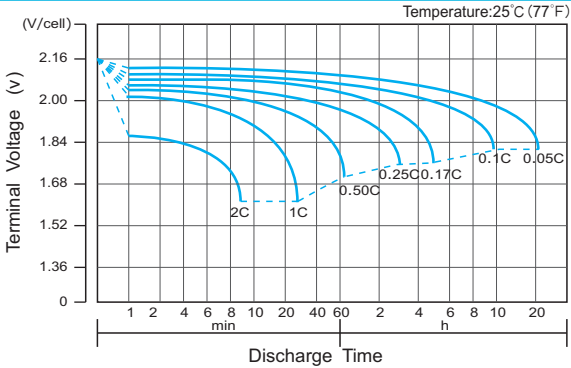
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	605	502	348	215	131	91.8	75.3	61.7	42.5	36.0	19.5
1.65V	587	494	344	215	131	91.7	75.2	61.5	42.3	35.8	19.1
1.70V	571	488	345	213	130	91.3	75.0	61.3	42.0	35.4	18.8
1.75V	538	471	341	211	129	91.0	74.3	60.6	41.7	35.1	18.4
1.80V	502	440	330	207	127	88.5	72.6	59.5	41.0	34.7	18.1
1.85V	459	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.

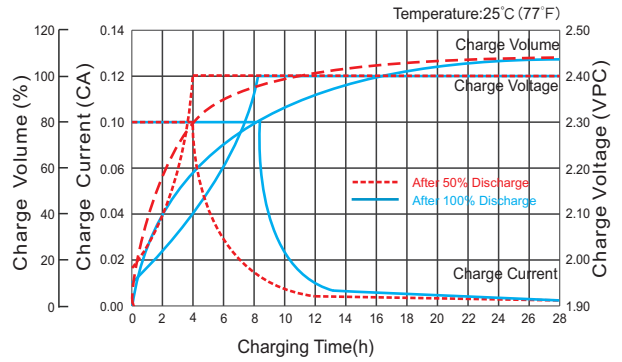
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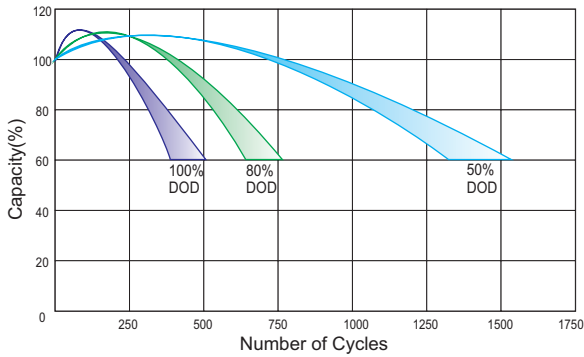
Discharge Characteristics Curve



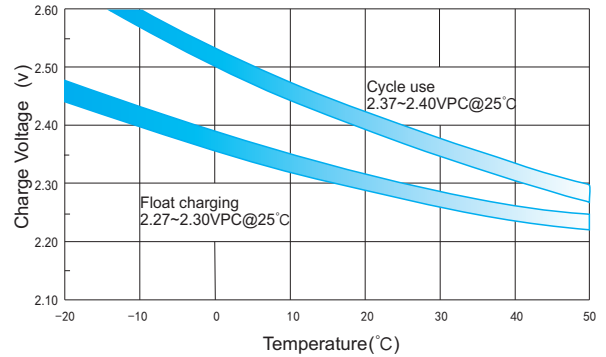
Charge Characteristic Curve for Cycle Use(IU)



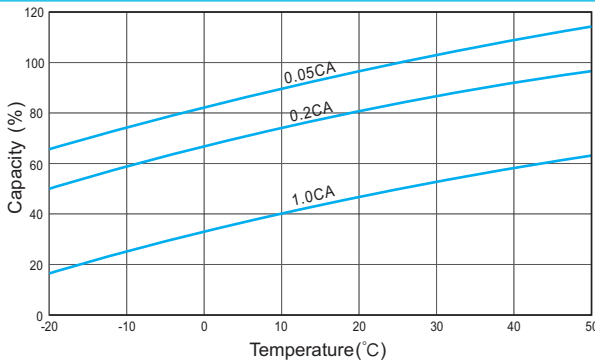
Cycle Life in Relation to Depth of Discharge



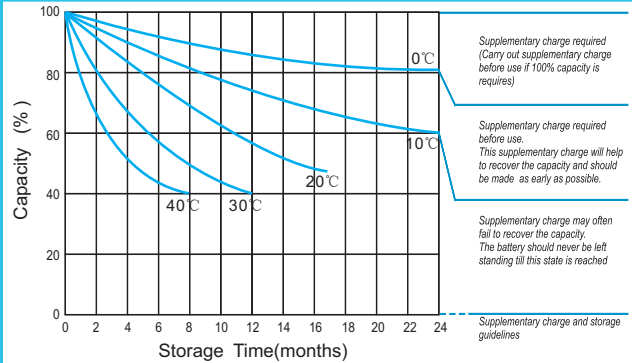
Relationship Between Charging Voltage and Temperature



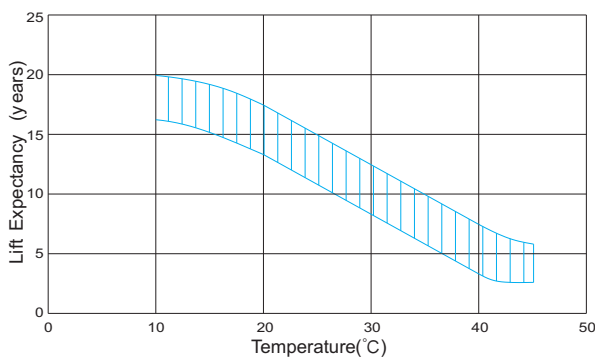
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



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

