

# DG6-200S(6V200Ah)



## Specification

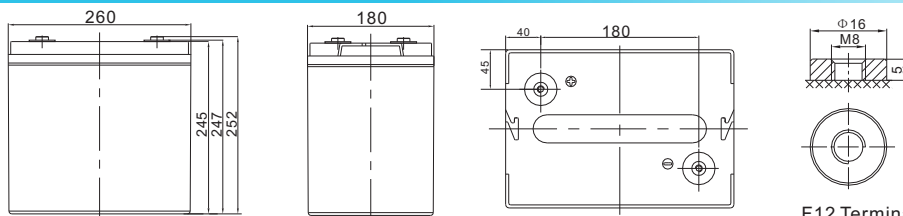
Cells Per Unit	3
Voltage Per Unit	6
Capacity	200Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 30 Kg (Tolerance ±2%)
Internal Resistance	Approx. 4 mΩ
Terminal	F12(M8)
Max. Discharge Current	2000A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	40.0 A
Reference Capacity	C3 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.



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



Length	260±2mm (10.2 inches)
Width	180±2mm (7.09 inches)
Height	245±2mm (9.65 inches)
Total Height	252±2mm (9.92 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

F 12 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	330.7	268.2	181.5	110.7	66.9	46.2	37.9	31.0	21.4	18.1	11.0
1.65V	314.6	262.7	180.0	110.2	66.4	46.1	37.7	30.8	21.2	17.9	10.6
1.70V	303.5	258.5	178.8	109.1	65.9	45.7	37.5	30.7	21.0	17.7	10.3
1.75V	283.4	249.1	176.1	108.1	65.4	45.5	37.2	30.3	20.8	17.5	10.0
1.80V	261.5	232.3	170.0	105.6	64.2	44.3	36.3	29.7	20.5	17.4	9.40
1.85V	236.4	210.7	160.8	100.3	61.4	42.3	34.6	28.5	19.6	16.8	9.00

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

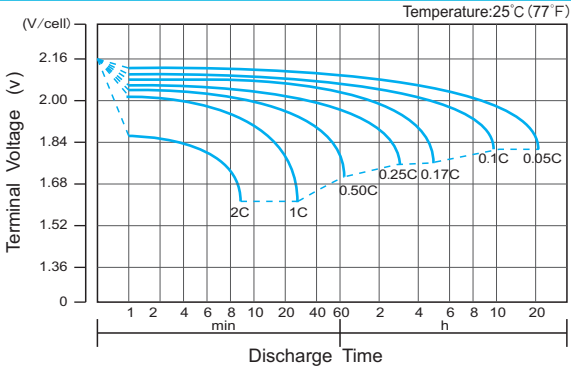
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	587	492	345	213	131	91.8	75.3	61.7	42.5	36.0	19.5
1.65V	569	484	341	213	131	91.7	75.2	61.5	42.3	35.8	19.1
1.70V	554	478	342	211	130	91.3	75.0	61.3	42.0	35.4	18.8
1.75V	522	462	337	209	129	91.0	74.3	60.6	41.7	35.1	18.4
1.80V	487	432	326	205	127	88.5	72.6	59.5	41.0	34.7	18.1
1.85V	445	393	309	196	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)



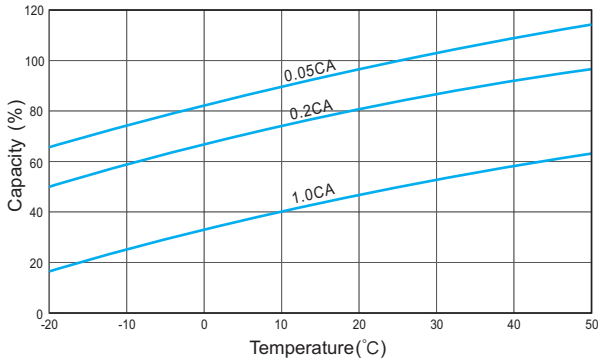
## Cycle Life in Relation to Depth of Discharge



## Relationship Between Charging Voltage and Temperature



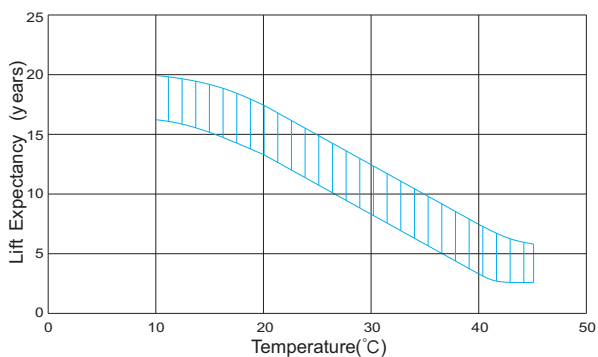
## Temperature Effects on Capacity



## Storage Characteristics



## Effect of Temperature on Long Term Life



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

