

# DG6-335(6V335Ah)



## Specification

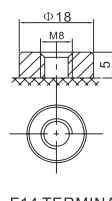
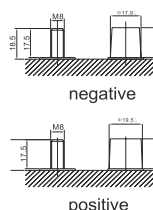
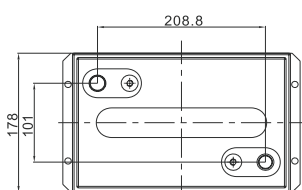
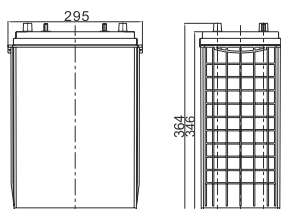
Cells Per Unit	3
Voltage Per Unit	6
Capacity	335Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 45.5 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 2.0 mΩ
Terminal	F14(M8)
Max. Discharge Current	3350A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	67.0 A
Reference Capacity	C3 231.0AH C5 256.0AH C10 303.0AH C20 348.0AH
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	295±1mm (11.6 inches)
Width	178±1mm (7.01 inches)
Height	346±1mm (13.6 inches)
Total Height	364±1mm (14.3 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	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	310.3	189.2	113.2	78.2	64.1	52.5	36.1	31.5	19.2
1.65V	307.6	188.3	112.3	77.9	63.8	52.2	35.9	31.2	18.5
1.70V	305.7	186.5	111.5	77.3	63.5	51.9	35.6	30.9	17.9
1.75V	300.9	184.8	110.6	77.0	62.9	51.2	35.3	30.6	17.4
1.80V	290.5	180.4	108.6	74.9	61.4	50.3	34.7	30.3	16.4
1.85V	274.7	171.4	103.8	71.6	58.5	48.2	33.2	29.4	15.7

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

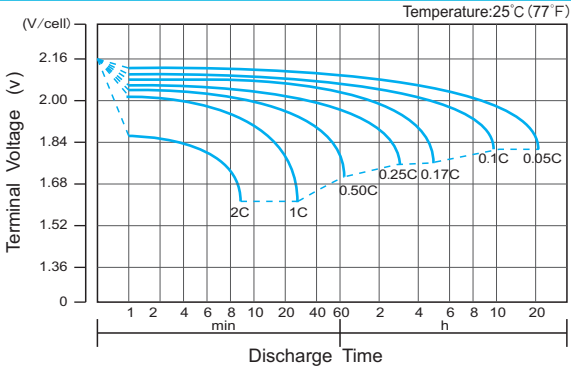
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	598	370	226	158	129	106	73.0	61.8	33.4
1.65V	591	369	224	158	129	106	72.7	61.4	32.8
1.70V	593	366	223	157	129	105	72.2	60.9	32.2
1.75V	585	363	221	156	128	104	71.6	60.3	31.6
1.80V	566	356	219	152	125	102	70.4	59.7	31.0
1.85V	537	341	211	145	119	97.8	67.4	57.9	29.2

(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)



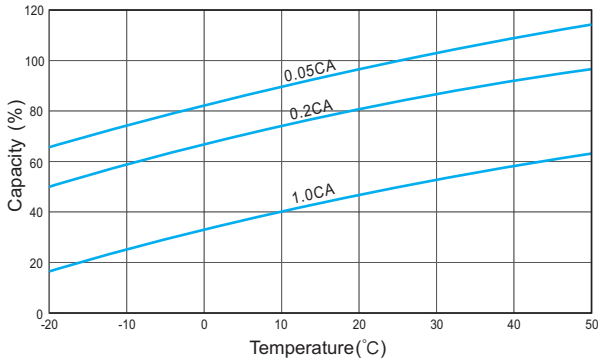
## Cycle Life in Relation to Depth of Discharge



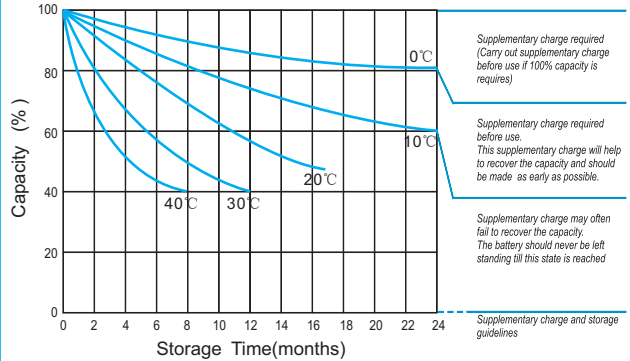
## Relationship Between Charging Voltage and Temperature



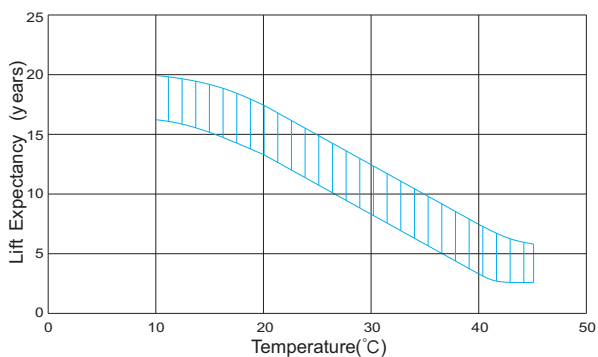
## Temperature Effects on Capacity



## Storage Characteristics



## Effect of Temperature on Long Term Life



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

