

DG2-2000(2V2000Ah)



Specification

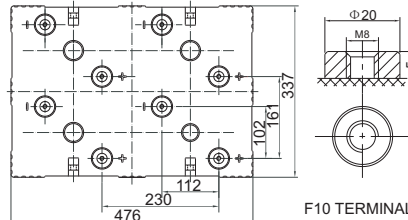
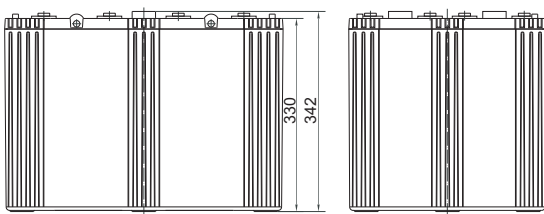
Cells Per Unit	1
Voltage Per Unit	2
Capacity	2000Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 120.0 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 0.4 mΩ
Terminal	F10(M8)
Max. Discharge Current	7000A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	400.0 A
Reference Capacity	C3 1560.0AH C5 1730.0AH C10 2000.0AH C20 2120.0AH
Float Charging Voltage	2.27 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.37 V~2.40 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 2% at 20°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 20 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 it can offers 2 times cyclic life than the standard series. It is suitable for solar & wind system, marine, deep discharge UPS etc.



Dimensions



Length	476±2mm (18.7 inches)
Width	337±2mm (13.3 inches)
Height	330±2mm (13.0 inches)
Total Height	342±2mm (13.5 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	6HR	8HR	10HR	20HR
1.60V	1956	1308	802.0	586.0	450.0	360.0	326.0	266.0	208.0	112.0
1.65V	1878	1292	774.0	562.0	440.0	356.0	318.0	254.0	206.0	110.0
1.70V	1770	1268	762.0	548.0	430.0	350.0	310.0	250.0	204.0	108.0
1.75V	1592	1166	720.0	520.0	416.0	346.0	294.0	242.0	202.0	106.0
1.80V	1450	1100	686.0	500.0	400.0	340.0	290.0	238.0	200.0	104.0
1.85V	1306	1016	648.0	476.0	390.0	320.0	274.0	226.0	194.0	98.0

Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.60V	3564	2436	1502	1092	792.0	714.0	628.0	506.0	414.0	224.0
1.65V	3544	2422	1480	1070	780.0	708.0	620.0	502.0	410.0	220.0
1.70V	3354	2398	1458	1054	778.0	700.0	606.0	494.0	408.0	216.0
1.75V	3024	2250	1382	1016	738.0	690.0	576.0	478.0	404.0	212.0
1.80V	2758	2140	1318	974.0	736.0	678.0	568.0	470.0	400.0	208.0
1.85V	2486	1984	1248	928.0	682.0	640.0	538.0	446.0	388.0	196.0

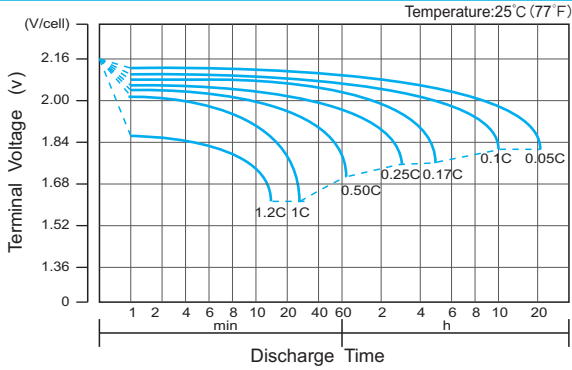
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

The battery must be fully charged before the capacity test. The C₁₀ should reach 95% after the first cycle and 100% after the third cycle.

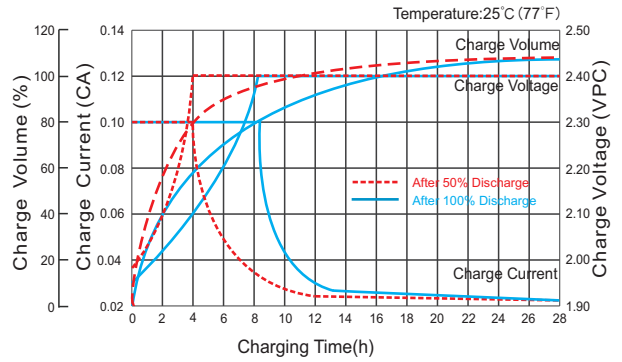
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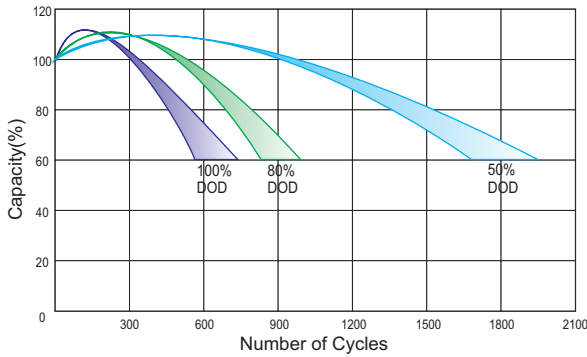
Discharge Characteristics Curve



Charge Characteristic Curve for Cycle Use(IU)



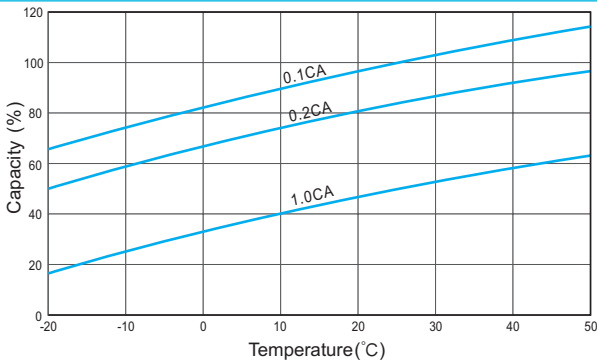
Cycle Life in Relation to Depth of Discharge



Relationship Between Charging Voltage and Temperature



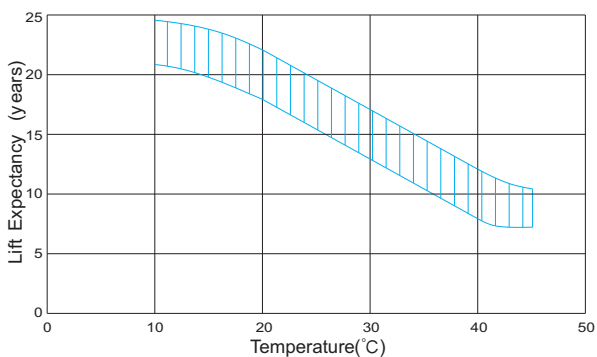
Temperature Effects on Capacity



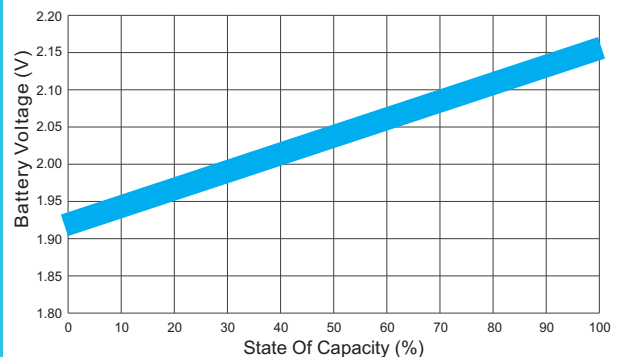
Storage Characteristics



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.