

# DG2-2000(2V2000Ah)



## Specification

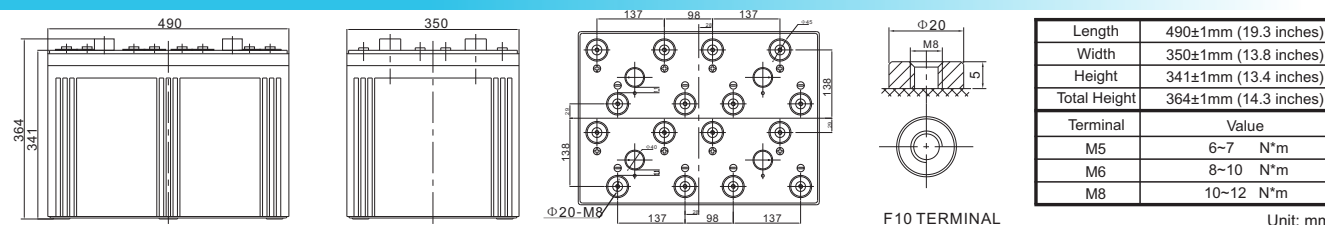


DG (Deep Cycle GEL ) series is pure GEL battery with 20 years floating design life , it is ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids, high purity lead and patented Gel electrolyte, the DG series offers excellent recovery capability after deep discharge under frequent cyclic discharge use, and can deliver 450 cycles at 100% DOD. Suitable for solar & wind system, CATV, marine, RV and deep discharge UPS, and telecommunication, etc.



<b>Cells Per Unit</b>	1
<b>Voltage Per Unit</b>	2
<b>Capacity</b>	2000Ah@10hr-rate to 1.80V per cell @25°C
<b>Weight</b>	Approx. 126.5 Kg (Tolerance ± 1%)
<b>Internal Resistance</b>	Approx. 0.4 mΩ
<b>Terminal</b>	F10(M8)
<b>Max. Discharge Current</b>	7000A (5 sec)
<b>Design Life</b>	20 years (floating charge)
<b>Maximum Charging Current</b>	400.0 A
<b>Reference Capacity</b>	C3 1560.0AH C5 1730.0AH C10 2000.0AH C20 2120.0AH
<b>Float Charging Voltage</b>	2.27 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
<b>Cycle Use Voltage</b>	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
<b>Operating Temperature Range</b>	Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°C~60°C
<b>Normal Operating Temperature Range</b>	25°C ± 5°C
<b>Self Discharge</b>	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.
<b>Container Material</b>	A.B.S. UL94-HB, UL94-V0 Optional.

## Dimensions



### Constant Current Discharge Characteristics : A(25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.60V	2526	1956	1308	802.0	586.0	450.0	360.0	326.0	266.0	208.0	112.0
1.65V	2402	1878	1292	774.0	562.0	440.0	356.0	318.0	254.0	206.0	110.0
1.70V	2240	1770	1268	762.0	548.0	430.0	350.0	310.0	250.0	204.0	108.0
1.75V	1988	1592	1166	720.0	520.0	416.0	346.0	294.0	242.0	202.0	106.0
1.80V	1712	1450	1100	686.0	500.0	400.0	340.0	290.0	238.0	200.0	104.0
1.85V	1448	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)

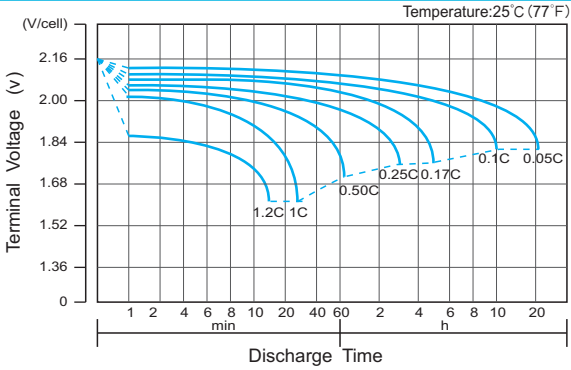
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.60V	4422	3564	2436	1502	1092	792.0	714.0	628.0	506.0	414.0	224.0
1.65V	4306	3544	2422	1480	1070	780.0	708.0	620.0	502.0	410.0	220.0
1.70V	4068	3354	2398	1458	1054	778.0	700.0	606.0	494.0	408.0	216.0
1.75V	3622	3024	2250	1382	1016	738.0	690.0	576.0	478.0	404.0	212.0
1.80V	3136	2758	2140	1318	974.0	736.0	678.0	568.0	470.0	400.0	208.0
1.85V	2674	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.

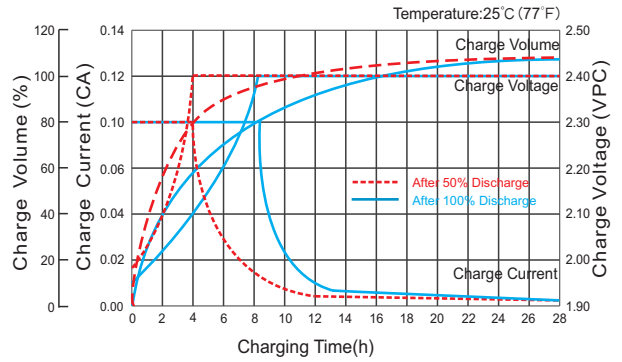
# DG2-2000(2V2000Ah)



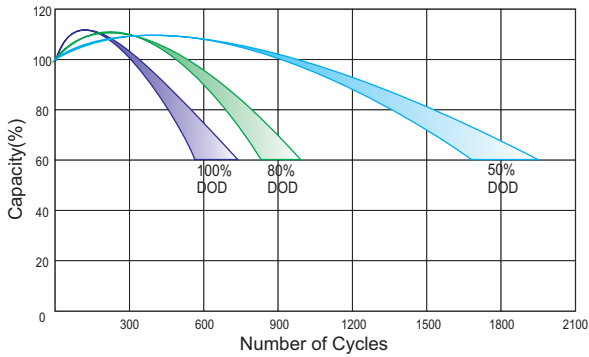
## Discharge Characteristics Curve



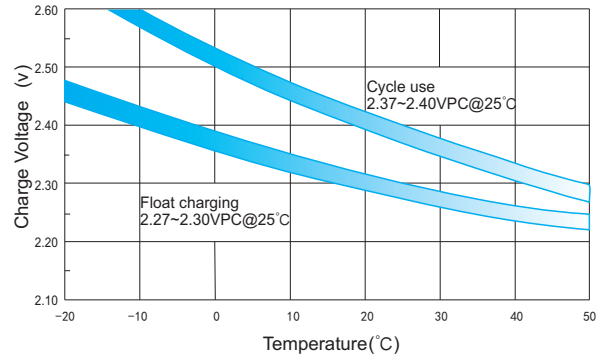
## Charge Characteristic Curve for Cycle Use(IU)



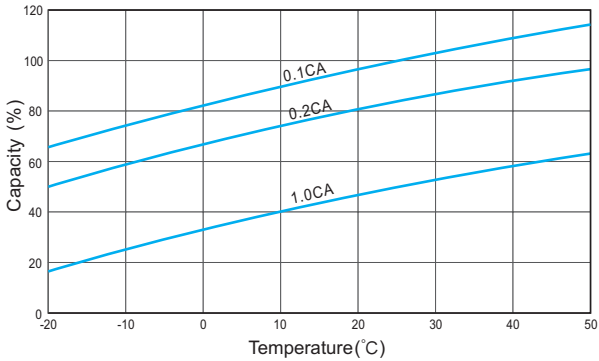
## Cycle Life in Relation to Depth of Discharge



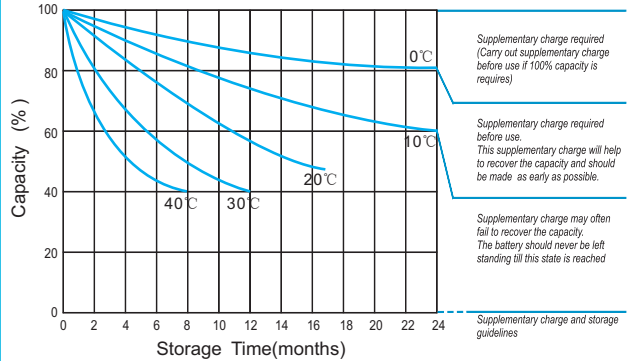
## Relationship Between Charging Voltage and Temperature



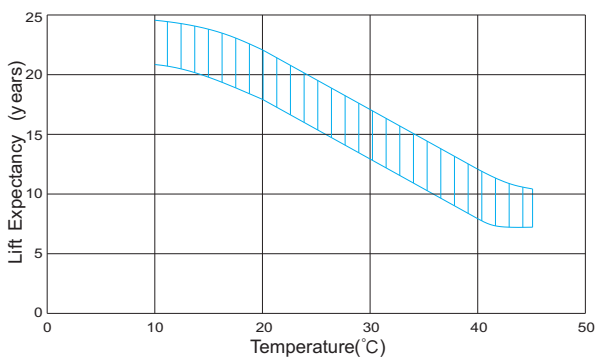
## Temperature Effects on Capacity



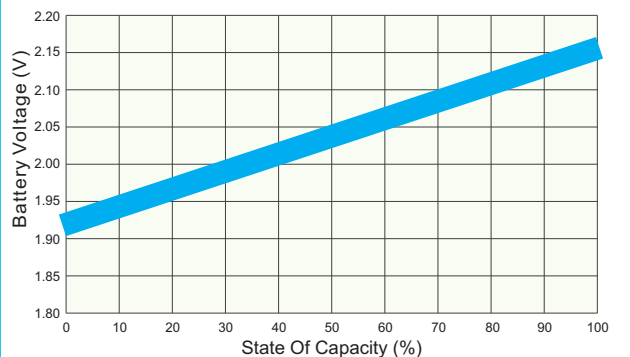
## Storage Characteristics



## Effect of Temperature on Long Term Life



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



For Battery Sales + EPA Battery Recycling and AC / DC Power Services, please contact:

**Moore & Moore Solutions, Inc.**  
 Phone: 484-302-7009  
 Email: [mr@mooreu.com](mailto:mr@mooreu.com)  
[www.MooreU.com](http://www.MooreU.com)