

DG2-2500(2V2500Ah)



Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	2500Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 140.0 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 0.35 mΩ
Terminal	F10(M8)
Max. Discharge Current	7000A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	500.0 A
Reference Capacity	C3 1950.0AH C5 2162.5AH C10 2500.0AH C20 2650.0AH
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.



ISO 9001



ISO 14001



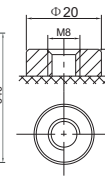
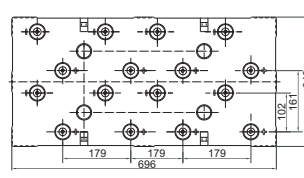
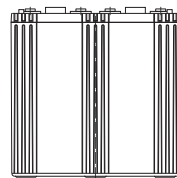
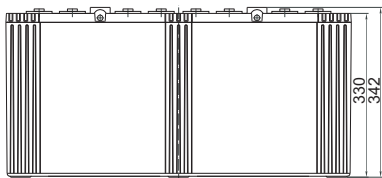
OHSAS 18001



MH 28539



Dimensions



F10 TERMINAL

Length	696±2mm (27.4 inches)
Width	340±2mm (13.4 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	2445	1635	1003	732.5	562.5	450.0	407.5	332.5	260.0	140.0
1.65V	2348	1615	967.5	702.5	550.0	445.0	397.5	317.5	257.5	137.5
1.70V	2213	1585	952.5	685.0	537.5	437.5	387.5	312.5	255.0	135.0
1.75V	1990	1458	900.0	650.0	520.0	432.5	367.5	302.5	252.5	132.5
1.80V	1813	1375	857.5	625.0	500.0	425.0	362.5	297.5	250.0	130.0
1.85V	1633	1270	810.0	595.0	487.5	400.0	342.5	282.5	242.5	122.5

Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.60V	4455	3045	1878	1365	990.0	892.5	785.0	632.5	517.5	280.0
1.65V	4430	3028	1850	1338	975.0	885.0	775.0	627.5	512.5	275.0
1.70V	4193	2998	1823	1318	972.5	875.0	757.5	617.5	510.0	270.0
1.75V	3780	2813	1728	1270	922.5	862.5	720.0	597.5	505.0	265.0
1.80V	3448	2675	1648	1218	920.0	847.5	710.0	587.5	500.0	260.0
1.85V	3108	2480	1560	1160	852.5	800.0	672.5	557.5	485.0	245.0

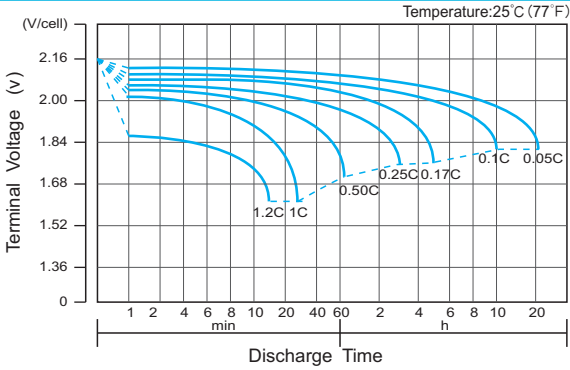
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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.

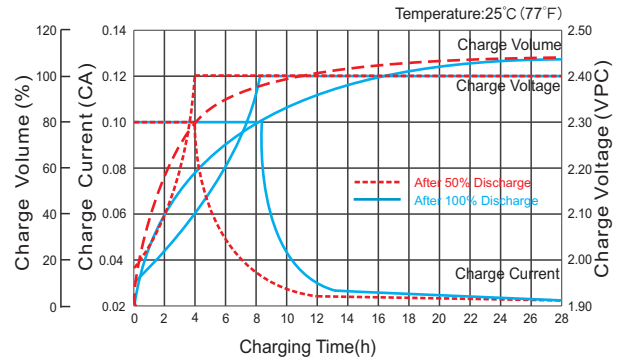
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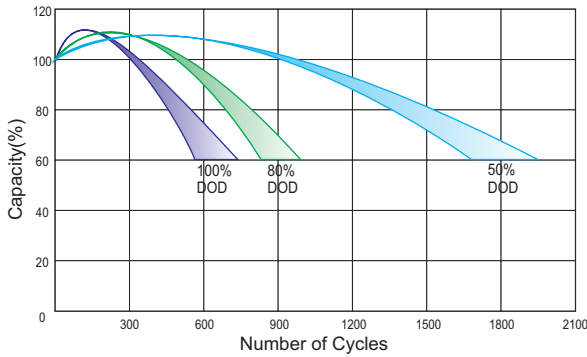
Discharge Characteristics Curve



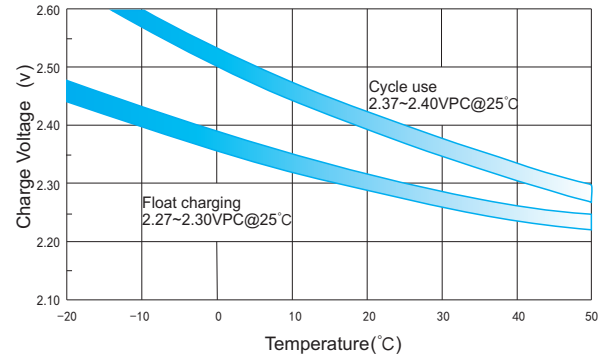
Charge Characteristic Curve for Cycle Use(IU)



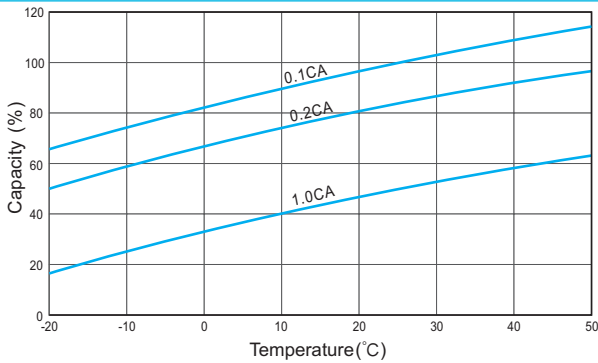
Cycle Life in Relation to Depth of Discharge



Relationship Between Charging Voltage and Temperature



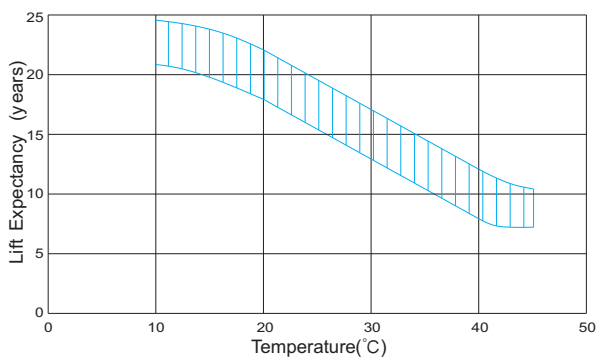
Temperature Effects on Capacity



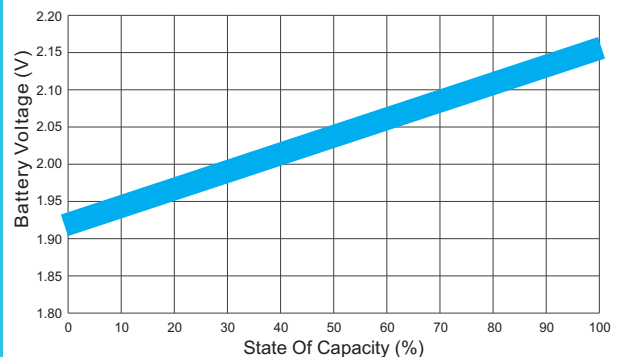
Storage Characteristics



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.