

DG12-65(12V65Ah)



Specification



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.



Cells Per Unit	6
Voltage Per Unit	12
Capacity	65Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 21.0 Kg (Tolerance ±2%)
Internal Resistance	Approx. 8mΩ
Terminal	F5(M8)/F11 (M6)
Max. Discharge Current	650A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	13A
Reference Capacity	C3 44.4AH C5 51.0AH C10 57.0AH C20 65.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.2 V~14.4 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.

Dimensions

Length	350±1mm (13.8 inches)
Width	167±1mm (6.57 inches)
Height	182±1mm (7.17 inches)
Total Height	182±1mm (7.17 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	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	120.5	94.3	62.0	36.3	21.7	15.0	12.4	10.5	7.15	5.93	3.58
1.65V	114.6	92.3	61.0	36.2	21.6	14.9	12.4	10.4	7.09	5.87	3.45
1.70V	110.6	90.9	60.4	35.8	21.4	14.8	12.3	10.3	7.03	5.81	3.35
1.75V	103.3	87.6	60.6	35.5	21.2	14.8	12.2	10.2	6.97	5.76	3.25
1.80V	95.27	81.7	60.1	34.7	20.9	14.4	11.9	10.0	6.86	5.70	3.06
1.85V	86.13	74.1	56.8	32.9	19.9	13.7	11.3	9.60	6.57	5.53	2.93

Constant Power Discharge Characteristics : WPC(25°C)

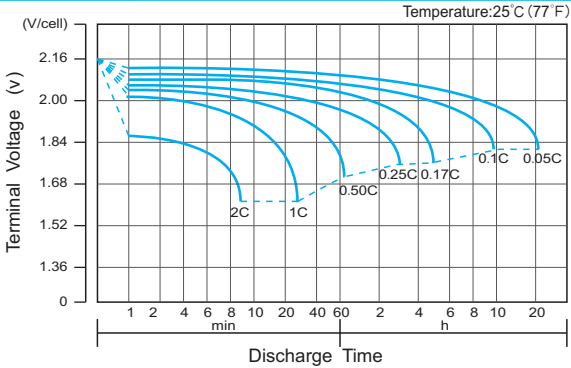
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	214	171	116	70.0	42.7	29.8	24.7	20.8	14.2	11.8	6.32
1.65V	207	169	115	69.8	42.5	29.8	24.7	20.8	14.2	11.7	6.21
1.70V	202	167	115	69.3	42.2	29.6	24.6	20.7	14.1	11.6	6.10
1.75V	190	161	115	68.6	41.9	29.5	24.4	20.4	13.9	11.5	5.98
1.80V	177	150	114	67.4	41.4	28.7	23.8	20.1	13.7	11.4	5.87
1.85V	162	137	109	64.5	39.8	27.5	22.7	19.2	13.1	11.1	5.52

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

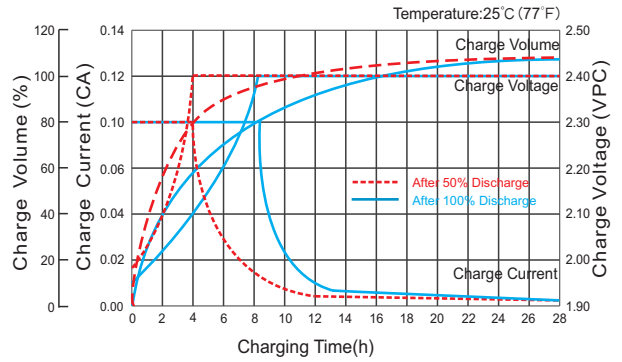
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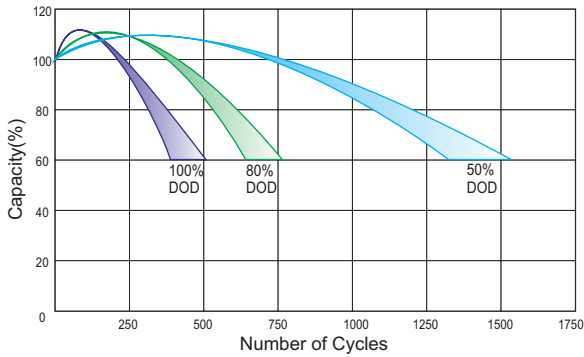
Discharge Characteristics Curve



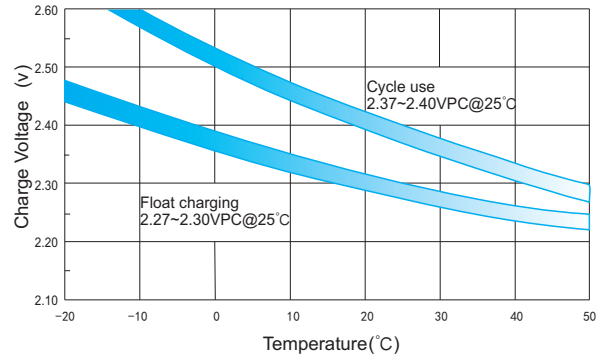
Charge Characteristic Curve for Cycle Use(IU)



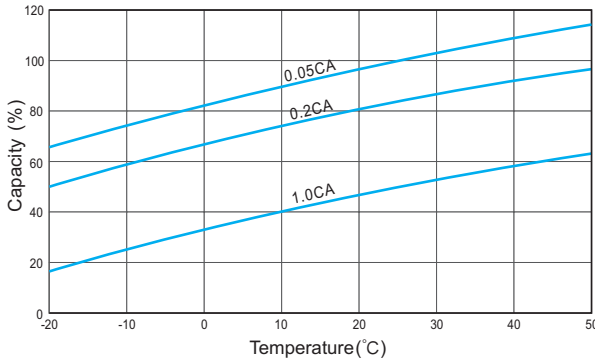
Cycle Life in Relation to Depth of Discharge



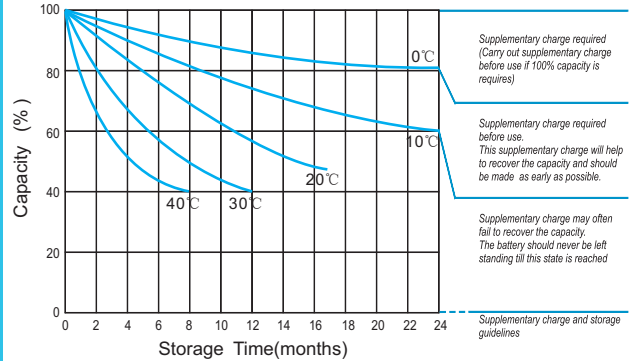
Relationship Between Charging Voltage and Temperature



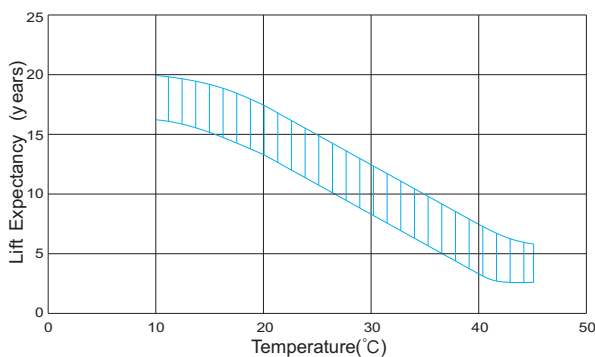
Temperature Effects on Capacity



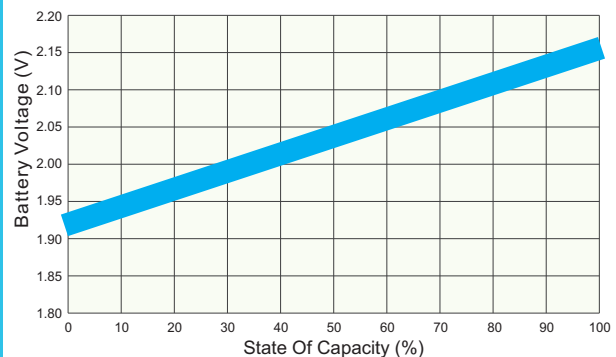
Storage Characteristics



Effect of Temperature on Long Term Life



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



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Moore & Moore Solutions, Inc.
 Phone: 484-302-7009
 Email: mr@mooreu.com
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