DG12-60(12V60Ah)

RITAR®

Specification

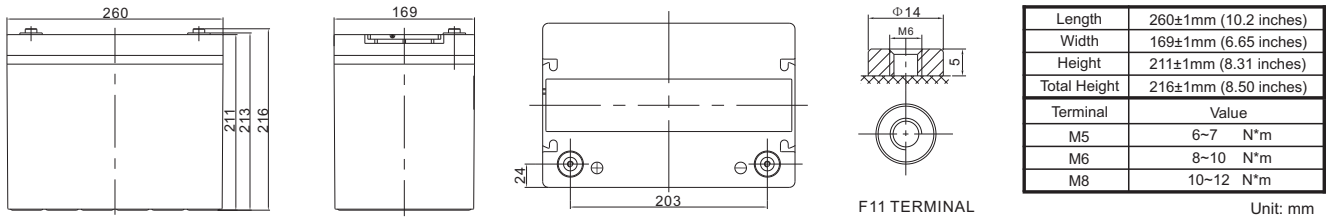
Cells Per Unit	6
Voltage Per Unit	12
Capacity	60Ah@20hr-rate to 1.75V per cell @25℃
Weight	Approx. 20.5 Kg (Tolerance±2%)
Internal Resistance	Approx. 8.5mΩ
Terminal	F15(M6)/F11(M6)
Max. Discharge Current	600A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	12A
Reference Capacity	C3 40.8AH C5 47.2AH C10 52.6AH C20 60.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	14.2 V~14.4 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -40℃~60℃ Charge: -20℃~50℃ Storage: -40℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25℃ and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25℃.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.

ISO 9001 ISO 14001 OHSAS 18001

MH 28539 G4M20206-0910-E-16

Dimensions



Length	260±1mm (10.2 inches)
Width	169±1mm (6.65 inches)
Height	211±1mm (8.31 inches)
Total Height	216±1mm (8.50 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℃)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	111.2	87.0	57.2	33.5	20.1	13.9	11.5	9.66	6.60	5.47	3.30
1.65V	105.8	85.2	56.3	33.4	19.9	13.8	11.4	9.60	6.54	5.42	3.18
1.70V	102.1	83.9	55.8	33.1	19.8	13.7	11.4	9.55	6.49	5.37	3.09
1.75V	95.32	80.8	55.9	32.8	19.6	13.6	11.3	9.43	6.44	5.31	3.00
1.80V	87.94	75.4	55.5	32.0	19.3	13.3	11.0	9.26	6.33	5.26	2.82
1.85V	79.51	68.4	52.4	30.4	18.4	12.7	10.5	8.86	6.06	5.10	2.70

Constant Power Discharge Characteristics : WPC(25℃)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	197	158	107	64.6	39.4	27.5	22.8	19.2	13.1	10.9	5.84
1.65V	191	156	106	64.4	39.2	27.5	22.8	19.2	13.1	10.8	5.73
1.70V	186	154	106	63.9	39.0	27.4	22.7	19.1	13.0	10.7	5.63
1.75V	176	148	106	63.4	38.7	27.3	22.5	18.9	12.9	10.6	5.52
1.80V	164	139	106	62.2	38.2	26.5	22.0	18.5	12.7	10.5	5.42
1.85V	150	126	100	59.5	36.8	25.4	20.9	17.7	12.1	10.2	5.10

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

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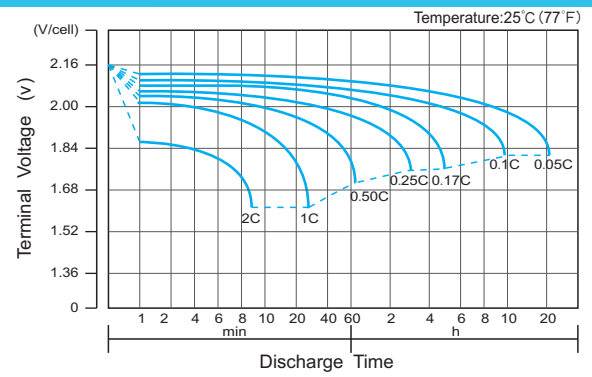
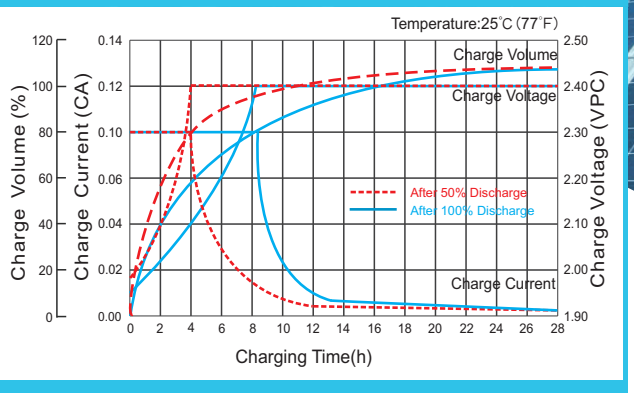
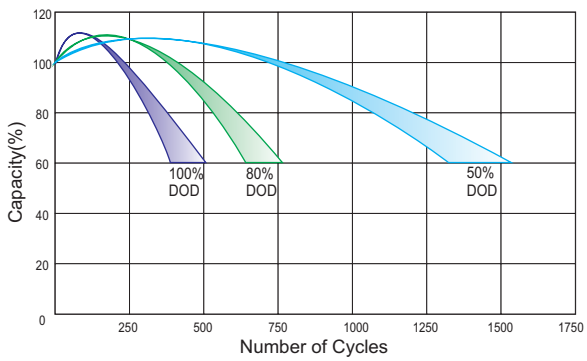
Discharge Characteristics Curve



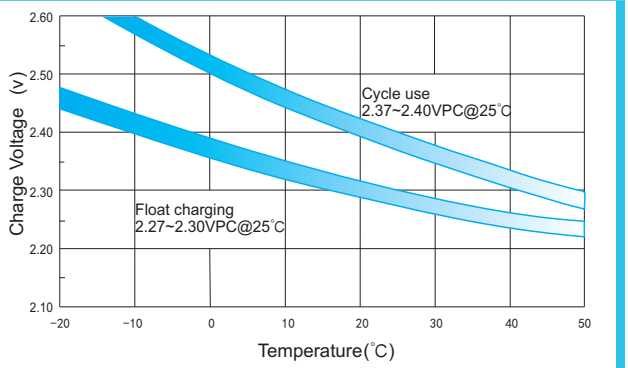
Charge Characteristic Curve for Cycle Use(IU)



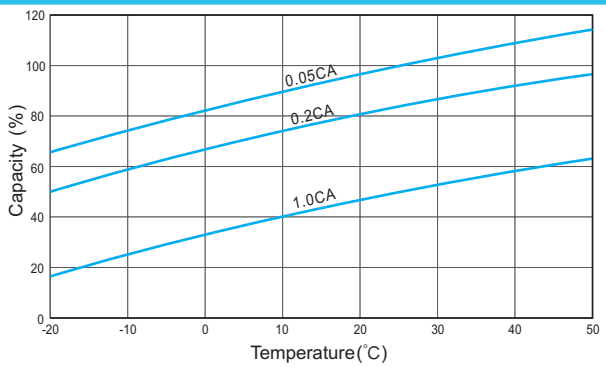
Cycle Life in Relation to Depth of Discharge



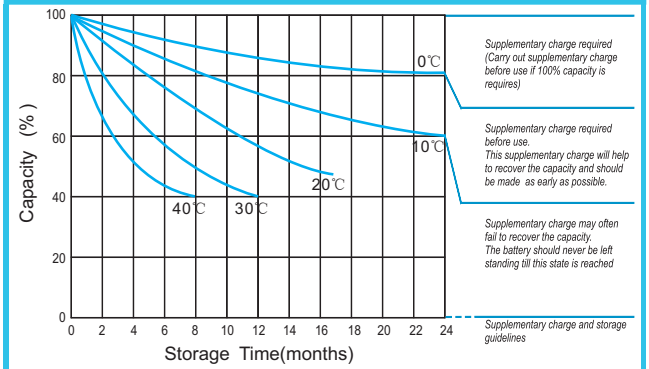
Relationship Between Charging Voltage and Temperature



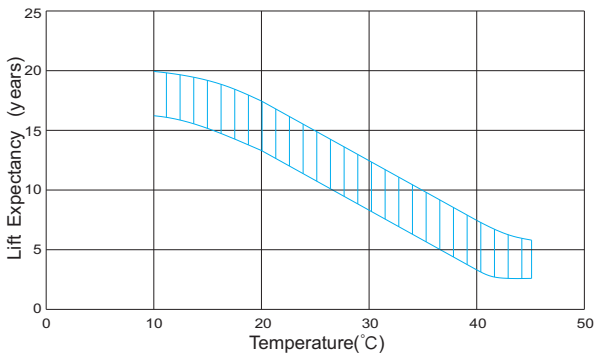
Temperature Effects on Capacity



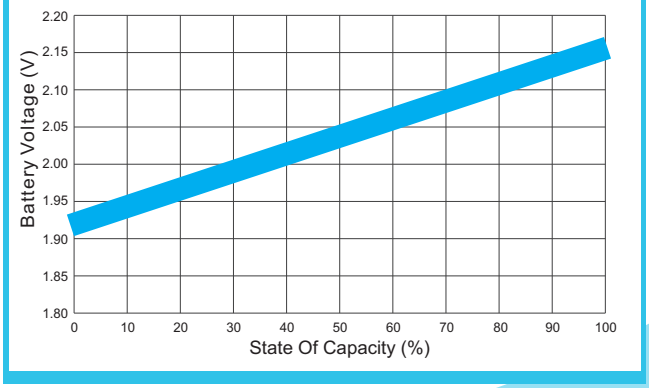
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)



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