DG12-80(12V80Ah)

RITAR®

Specification

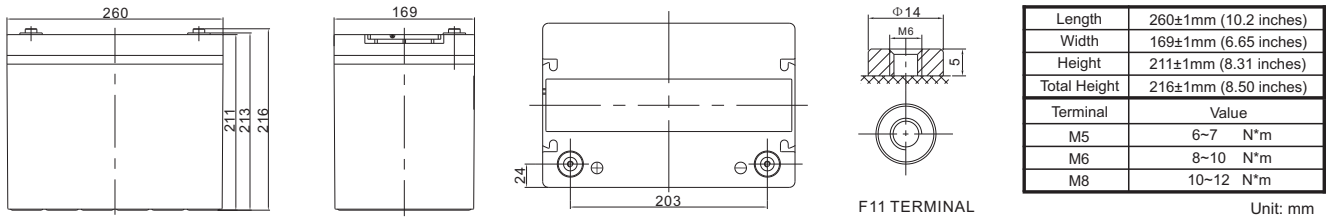
Cells Per Unit	6
Voltage Per Unit	12
Capacity	80Ah@20hr-rate to 1.75V per cell @25℃
Weight	Approx. 25.0 Kg (Tolerance±2%)
Internal Resistance	Approx. 7mΩ
Terminal	F15(M6)/F11(M6)
Max. Discharge Current	800A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	16A
Reference Capacity	C3 54.6AH C5 63.0AH C10 70.2AH C20 80.0AH
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	148.3	116.0	76.3	44.7	26.7	18.5	15.3	12.9	8.80	7.30	4.40
1.65V	141.1	113.7	75.0	44.5	26.5	18.4	15.2	12.8	8.73	7.23	4.24
1.70V	136.1	111.9	74.4	44.1	26.3	18.3	15.2	12.7	8.65	7.16	4.12
1.75V	127.1	107.8	74.5	43.7	26.1	18.2	15.0	12.6	8.58	7.09	4.00
1.80V	117.3	100.5	74.0	42.7	25.7	17.7	14.7	12.3	8.44	7.02	3.76
1.85V	106.0	91.2	69.9	40.5	24.5	16.9	14.0	11.8	8.08	6.81	3.60

Constant Power Discharge Characteristics : WPC(25℃)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	263	211	143	86.1	52.5	36.6	30.4	25.6	17.5	14.5	7.78
1.65V	255	207	141	85.9	52.3	36.6	30.4	25.5	17.4	14.4	7.65
1.70V	248	205	141	85.3	51.9	36.5	30.3	25.5	17.3	14.3	7.50
1.75V	234	198	142	84.5	51.6	36.3	30.0	25.2	17.2	14.2	7.36
1.80V	218	185	141	82.9	50.9	35.3	29.3	24.7	16.9	14.0	7.22
1.85V	200	169	134	79.4	49.0	33.8	27.9	23.6	16.2	13.6	6.80

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

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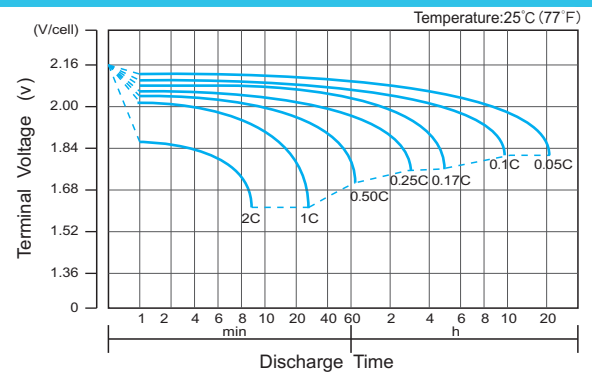
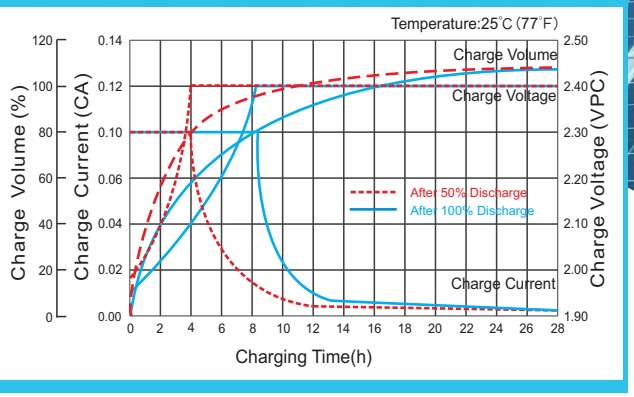
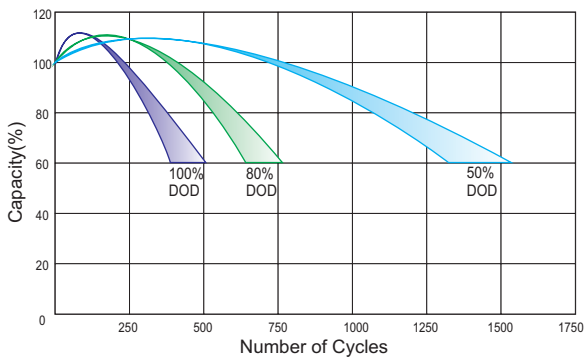
Discharge Characteristics Curve



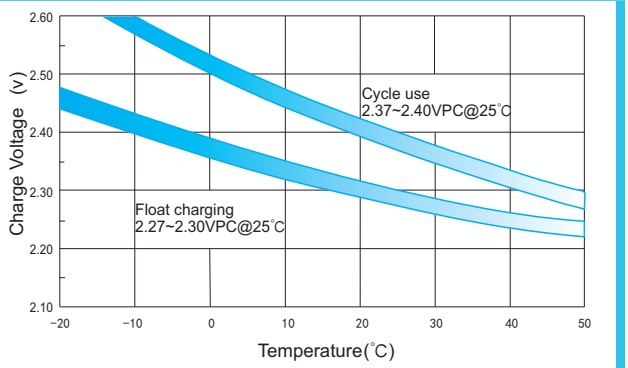
Charge Characteristic Curve for Cycle Use(IU)



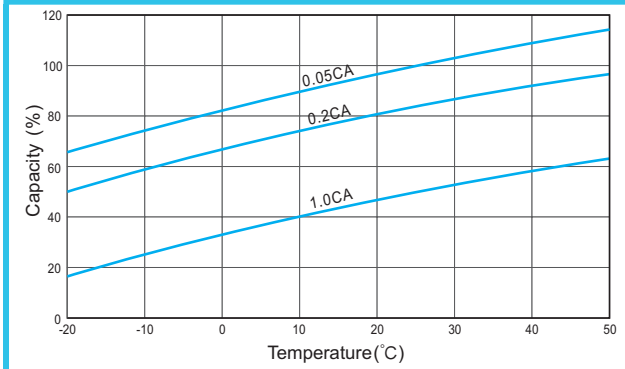
Cycle Life in Relation to Depth of Discharge



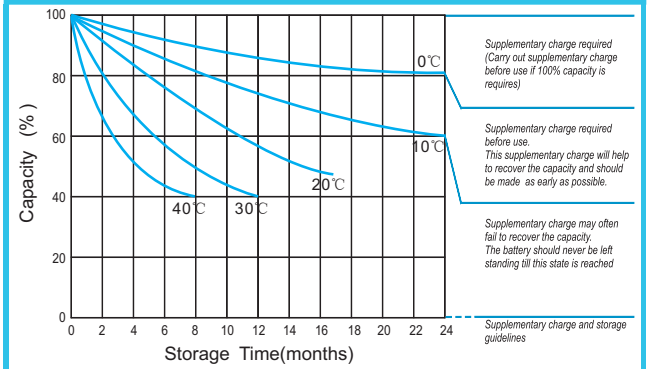
Relationship Between Charging Voltage and Temperature



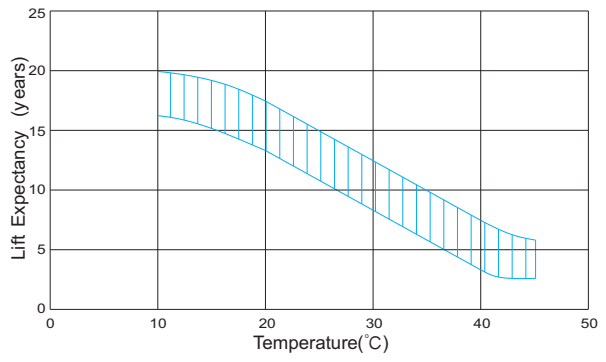
Temperature Effects on Capacity



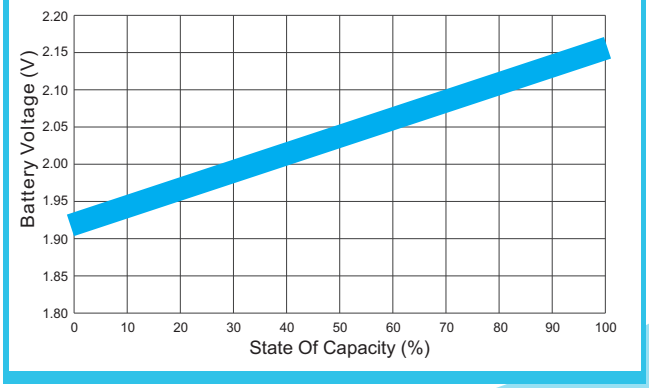
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)



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