DG12-33(12V33Ah)

RITAR®

Specification

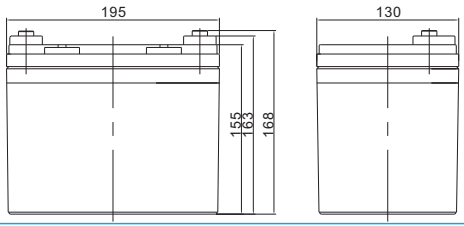
Cells Per Unit	6
Voltage Per Unit	12
Capacity	33Ah@20hr-rate to 1.75V per cell @25℃
Weight	Approx. 10.2 Kg (Tolerance±3%)
Internal Resistance	Approx. 9.5mΩ
Terminal	F7(M8)/F11(M6)
Max. Discharge Current	330A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	6.6A
Reference Capacity	C3 22.5AH C5 26.0AH C10 28.9AH C20 33.0AH
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.

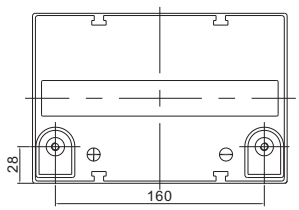
DG (Deep Cycle GEL) series is pure GEL battery with 15 years floating design life , it is ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids, high purity lead and patented Gel electrolyte, the DG series offers excellent recovery capability after 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.

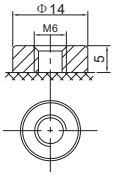
IQNet CERTIFICATE IQNet CERTIFICATE

MH28539 G4M20206-0910-E-16

Dimensions







F11 TERMINAL

Length	195±1mm (7.68 inches)
Width	130±1mm (5.12 inches)
Height	155±1mm (6.10 inches)
Total Height	168±1mm (6.61 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	61.17	47.86	31.47	18.45	11.03	7.62	6.31	5.31	3.63	3.01	1.82
1.65V	58.20	46.88	30.95	18.36	10.95	7.59	6.28	5.28	3.60	2.98	1.75
1.70V	56.15	46.15	30.68	18.19	10.87	7.53	6.25	5.25	3.57	2.95	1.70
1.75V	52.42	44.45	30.75	18.02	10.78	7.50	6.19	5.19	3.54	2.92	1.65
1.80V	48.37	41.45	30.51	17.60	10.59	7.30	6.05	5.09	3.48	2.89	1.55
1.85V	43.73	37.61	28.84	16.72	10.12	6.98	5.76	4.88	3.33	2.81	1.49

Constant Power Discharge Characteristics : WPC(25℃)

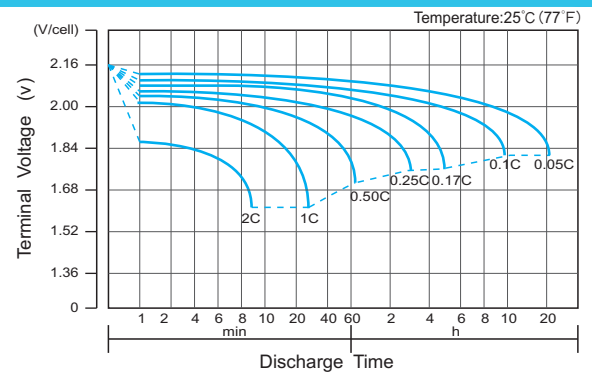
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	109	87.0	58.9	35.5	21.7	15.1	12.5	10.6	7.22	6.00	3.21
1.65V	105	85.6	58.2	35.4	21.6	15.1	12.5	10.5	7.19	5.96	3.15
1.70V	102	84.6	58.3	35.2	21.4	15.0	12.5	10.5	7.14	5.90	3.10
1.75V	96.5	81.7	58.5	34.9	21.3	15.0	12.4	10.4	7.08	5.85	3.04
1.80V	90.0	76.3	58.1	34.2	21.0	14.6	12.1	10.2	6.96	5.79	2.98
1.85V	82.4	69.5	55.3	32.7	20.2	14.0	11.5	9.75	6.67	5.61	2.80

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

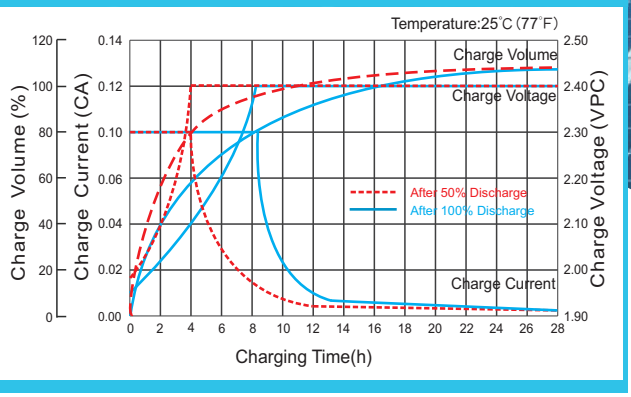
DG12-33(12V33Ah)

RITAR®

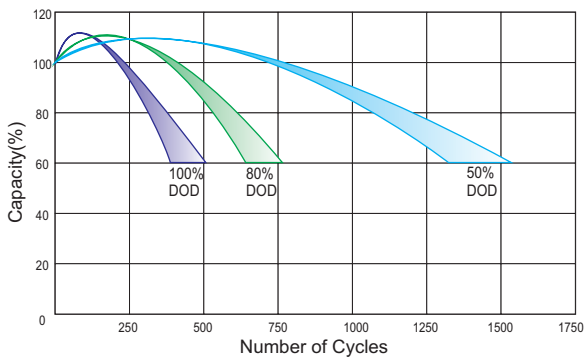
Discharge Characteristics Curve



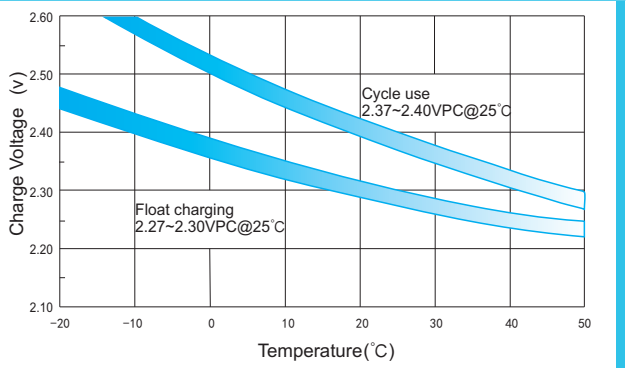
Charge Characteristic Curve for Cycle Use(IU)



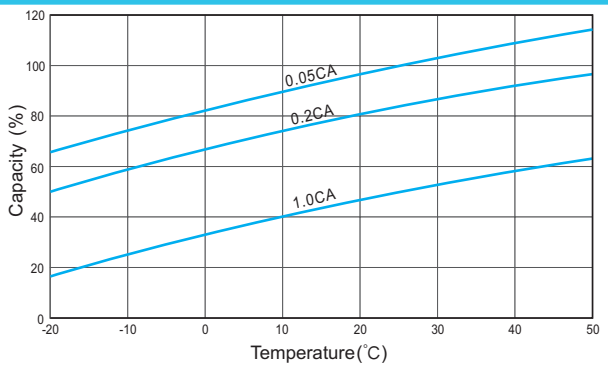
Cycle Life in Relation to Depth of Discharge



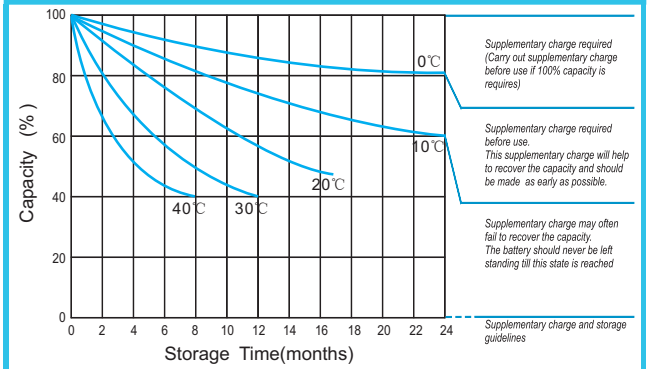
Relationship Between Charging Voltage and Temperature



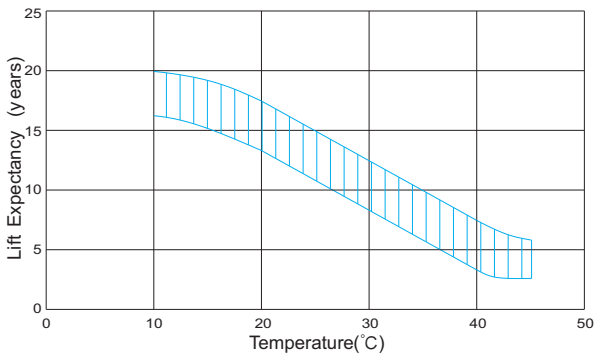
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)