DG2-1500 (2V1500Ah)

DG (Deep Cycle GEL, 2 Volts) series is pure GEL battery with 18+ 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 after deep discharge under frequent cyclic discharge use, and can deliver 400 cycles at 100% DOD. Suitable for solar, CATV, marine , RV and deep discharge UPS, communication , and telecommunication , etc.

RITAR®

Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	1500Ah@10hr-rate to 1.80V per cell @25℃
Weight	Approx. 96 Kg (Tolerance ±1%)
Max. Discharge Current	6000 A (5 sec)
Internal Resistance	Approx. 0.75 mΩ
Operating Temperature Range	Discharge: -40℃~60℃ Charge: -20℃~50℃ Storage: -40℃~60℃
Normal Operating Temperature Range	25℃±5℃
Float charging Voltage	2.27 to 2.3 VDC/unit Average at 25℃
Recommended Maximum Charging Current	300 A
Equalization and Cycle Service	2.37 to 2.4 VDC/unit Average at 25℃
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25℃. Self-discharge ratio less than 3% per month at 25℃. Please charge batteries before using.
Terminal	Thread insert & Bolt (F10)
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

MH28539

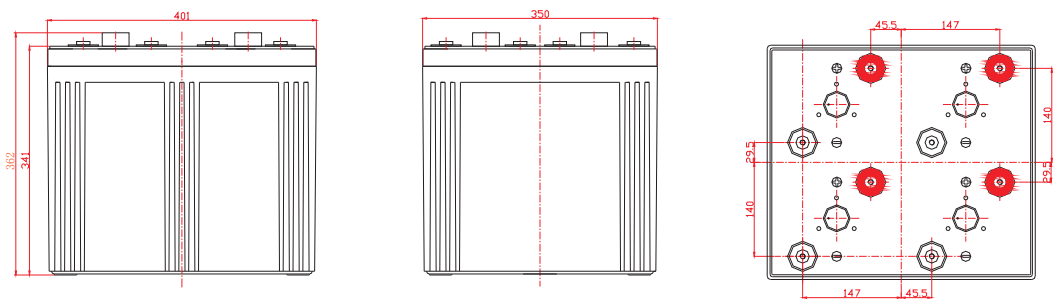
G4M20206-0910-E-16

IQNet THE INTERNATIONAL CERTIFICATION NETWORK CERTIFICATE Postcode.:421001 is in conformity with ISO 14001:2004 Standard

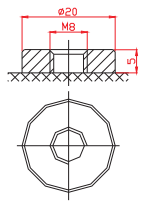
IQNet THE INTERNATIONAL CERTIFICATION NETWORK CERTIFICATE Postcode.:421001 is in conformity with OHSAS 18001:1999 Standard

Dimensions

Unit: mm Dimension: 401(L)×350(W)×341(H)



Terminal F10



Constant Current Discharge Characteristics: A (25℃)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.60V	1894.5	1467.0	981.0	601.5	439.5	337.5	270.0	244.5	199.5	156.0	84.0
1.65V	1801.5	1408.5	969.0	580.5	421.5	330.0	267.0	238.5	190.5	154.5	82.5
1.70V	1680.0	1327.5	951.0	571.5	411.0	322.5	262.5	232.5	187.5	153.0	81.0
1.75V	1491.0	1194.0	874.5	540.0	390.0	312.0	259.5	220.5	181.5	151.5	79.5
1.80V	1284.0	1087.5	825.0	514.5	375.0	300.0	255.0	217.5	178.5	150.0	78.0
1.85V	1086.0	979.5	762.0	486.0	357.0	292.5	240.0	205.5	169.5	145.5	73.5

Constant Power Discharge Characteristics: W (25℃)

All mentioned values are average values (Tolerance ±2%).

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.60V	3316.5	2673.0	1827.0	1126.5	819.0	594.0	535.5	471.0	379.5	310.5	168.0
1.65V	3229.5	2658.0	1816.5	1110.0	802.5	585.0	531.0	465.0	376.5	307.5	165.0
1.70V	3051.0	2515.5	1798.5	1093.5	790.5	583.5	525.0	454.5	370.5	306.0	162.0
1.75V	2716.5	2268.0	1687.5	1036.5	762.0	553.5	517.5	432.0	358.5	303.0	159.0
1.80V	2352.0	2068.5	1605.0	988.5	730.5	552.0	508.5	426.0	352.5	300.0	156.0
1.85V	2005.5	1864.5	1488.0	936.0	696.0	511.5	480.0	403.5	334.5	291.0	147.0

Distribuidor en el Perú

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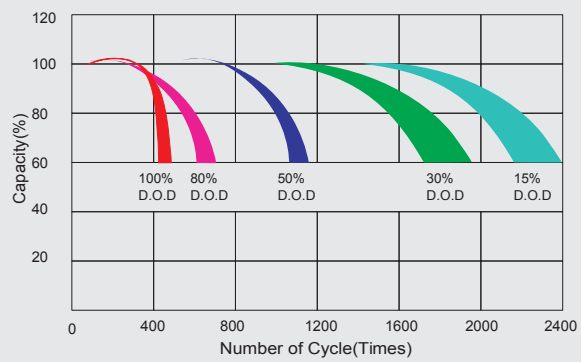
DG2-1500

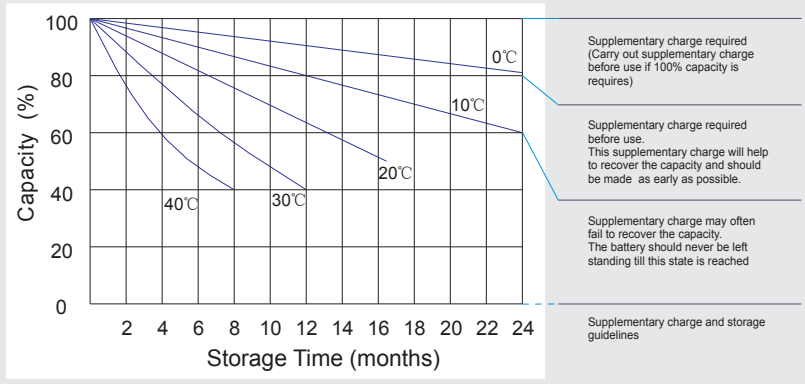
2V1500Ah

RITAR®

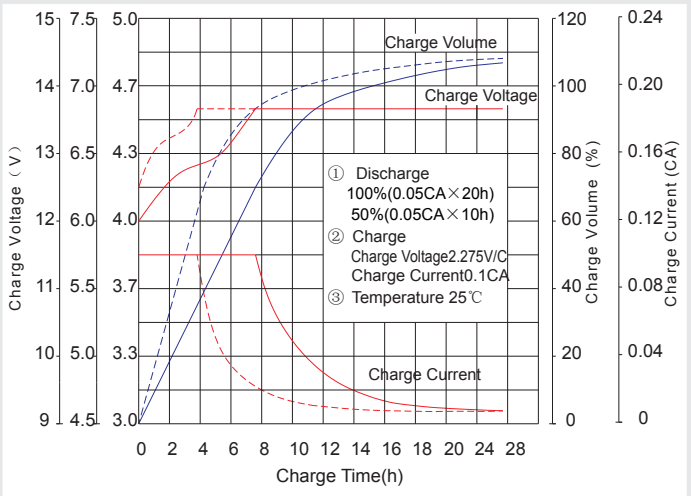
Life characteristics of cyclic use



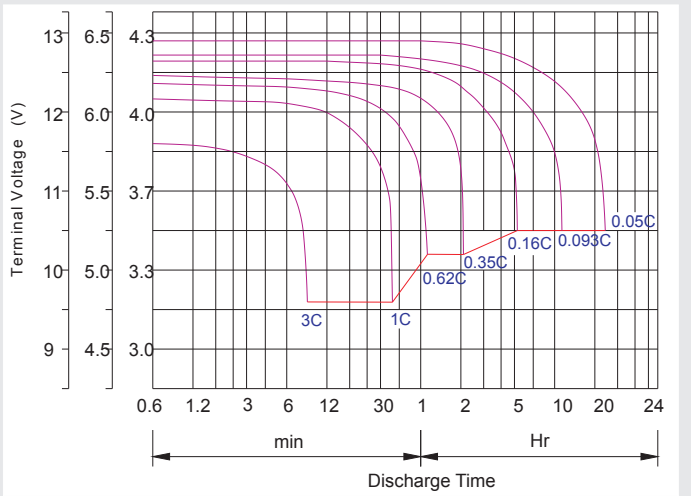
Storage characteristic



Charge characteristic curve for cyclic use



Discharge characteristic curve



Capacity Factors With Different Temperature

Battery Type		-20℃	-10℃	0℃	5℃	10℃	20℃	25℃	30℃	40℃	45℃
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V /cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤0.2C	0.2C< (A) <1.0C	(A) ≥1.0C

Charge the batteries at least once every six months, if they are stored at 25℃.

Charging Method:

Constant Voltage	-0.2Cx2h+2.4-2.45V/cellx24h,Max. Current 0.2C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.2Cx6h

Bolt	M5	M6	M8
Terminal	F3 F4 F13 F18 T25 T26	F8 F11 F12-1 F15	F5 F9 F10 F12 F14 F16
Torque	6~7N-m	8~10N-m	10~12N-m

Maintenance & Cautions

Cycle service
※ Avoid battery over discharge, especially battery sereis connection use.
※ Charged with recommend voltage, ensure battery can be full recharged.
In general, recharge capacity should be 1.1-1.15 times discharge capacity.
※ Effect of temperature on float charge voltage: -4mV/℃/Cell.
※ There are a number of factors that will affect the length of cyclic service.
The most significant are depth of discharge, ambient temperature,
discharge rate, and the manner in which the battery is recharged.
Generally specking, the most important factors is depth of discharge.

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