

DG12-150 (12V150Ah)

TECHNICAL SPECIFICATIONS

Cell per unit	6	
Voltage per unit	12	
Capacity	150Ah@20hr-rate to 1.75V per cell @25°C	
Dimensions (mm)	Length	483±2mm
	Width	170±2mm
	Height	241±2mm
	Total height	241±2mm
Weight	Approx. 45.0 Kg (Tolerance ± 3%)	
Internal resistance	Approx. 6.0mΩ	
Terminal	F12(M8) / F5(M8)	
Max. discharge current	1500A (5 sec)	
Design life	15 years (floating charge)	
Max. charge current	30.0A	
Reference capacity	C3	102.3Ah
	C5	115.5Ah
	C10	132.0Ah
	C20	150.0Ah
Float charging voltage	13.6V~13.8V @ 25°C Temperature Compensation: -3mV/°C/Cell	
Cycle use voltage (cycling)	14.2V~14.4V @ 25°C Temperature Compensation: -4mV/°C/Cell	
Operating temperature range	Discharge: -40~60°C	
	Charge: -20~50°C	
	Storage: -40~60°C	
Normal operating temp. 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 2% at 25°C. Please charged batteries before using.	
Container material	A.B.S. UL94-HB, UL94-V0 Optional	



GENERAL SPECIFICATIONS

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 1500 cycles at 50% discharge depth, 750 cycles at 80% discharge depth.

Suitable for solar & wind system, CATV, marine, RV and deep discharge UPS, and telecommunication, etc.

CONSTANT CURRENT DISCHARGE (Amperes) at 25°C

F.V/Time	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85V	144.7	127.2	94.3	63.2	39.7	30.6	24.8	21.0	15.0	12.4	7.05
1.80V	177.0	153.2	109.5	70.5	43.4	33.1	26.7	22.5	15.9	13.2	7.42
1.75V	195.6	166.0	114.6	73.3	45.0	34.1	27.5	23.1	16.2	13.4	7.50
1.70V	213.6	178.3	119.9	76.1	46.6	35.2	28.2	23.7	16.4	13.5	7.59
1.65V	232.1	190.4	125.5	78.7	48.2	36.2	29.0	24.3	16.7	13.8	7.68
1.60V	245.6	199.2	130.7	81.5	49.8	37.3	29.8	25.0	16.9	13.9	7.81

CONSTANT POWER DISCHARGE (Watts/cell) at 25°C

F.V/Time	10min	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85V	305.8	271.5	204.8	139.2	87.8	67.8	55.1	46.8	33.6	27.9	15.9
1.80V	367.6	322.6	235.5	154.2	95.3	73.0	59.1	50.0	35.7	29.6	16.7
1.75V	399.2	344.5	243.9	159.4	98.3	75.0	60.6	51.1	36.2	30.0	16.8
1.70V	428.4	364.9	252.6	164.5	101.4	77.0	61.9	52.3	36.6	30.3	17.0
1.65V	451.4	380.3	261.2	169.2	104.3	79.0	63.4	53.5	37.1	30.7	17.2
1.60V	474.4	395.7	269.7	173.9	107.2	81.0	65.0	54.7	37.5	31.1	17.5