

# DG12-100 (12V100Ah)

## TECHNICAL SPECIFICATIONS

Cell per unit	6	
Voltage per unit	12	
Capacity	100Ah@20hr-rate to 1.75V per cell @25°C	
Dimensions (mm)	Length	328±2mm
	Width	172±2mm
	Height	215±2mm
	Total height	220±2mm
Weight	Approx. 29.0 kg (Tolerance±3%)	
Internal resistance	Approx. 7.5mΩ	
Terminal	F12 (M8) / F5(M8)	
Max. discharge current	400A (5S)	
Design life	15 years (floating charge)	
Max. charge current	20.0A	
Reference capacity	C3	68.4Ah
	C5	77.0Ah
	C10	88.0Ah
	C20	100.0Ah
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	96.4	84.8	62.9	42.2	26.5	20.4	16.5	14.0	10.0	8.28	4.70
1.80V	118.0	102.2	73.0	47.0	28.9	22.0	17.8	15.0	10.6	8.80	4.95
1.75V	130.4	110.6	76.4	48.9	30.0	22.8	18.3	15.4	10.8	8.91	5.00
1.70V	142.4	118.9	79.9	50.7	31.1	23.5	18.8	15.8	11.0	9.03	5.06
1.65V	154.7	126.9	83.6	52.4	32.1	24.1	19.3	16.2	11.1	9.17	5.12
1.60V	163.7	132.8	87.1	54.3	33.2	24.9	19.8	16.7	11.3	9.28	5.20

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

F.V/Time	10dk	15dk	30dk	1sa	2sa	3sa	4sa	5sa	8sa	10sa	20sa
1.85V	203.9	181.0	136.6	92.8	58.5	45.2	36.7	31.2	22.4	18.6	10.6
1.80V	245.1	215.1	157.0	102.8	63.5	48.7	39.4	33.3	23.8	19.8	11.1
1.75V	266.1	229.7	162.6	106.3	65.5	50.0	40.4	34.1	24.1	20.0	11.2
1.70V	285.6	243.3	168.4	109.6	67.6	51.3	41.3	34.9	24.4	20.2	11.4
1.65V	300.9	253.5	174.1	112.8	69.5	52.7	42.3	35.7	24.7	20.5	11.5
1.60V	316.2	263.8	179.8	116.0	71.5	54.0	43.3	36.5	25.0	20.7	11.6