

# DG12-200 (12V200Ah)

## TECHNICAL SPECIFICATIONS

Cell per unit	6	
Voltage per unit	12	
Capacity	100Ah@20hr-rate to 1.75V per cell @25°C	
Dimensions (mm)	Length	522±1mm
	Width	240±1mm
	Height	219±1mm
	Total height	224±1mm
Weight	Approx. 60.0 kg (Tolerance ± 3%)	
Internal resistance	Approx. 5.2mΩ	
Terminal	F16(M8)/F10(M8)	
Max. discharge current	2000A (5 sec)	
Design life	15 years (floating charge)	
Max. charge current	40.0A	
Reference capacity	C3	136.5Ah
	C5	151.5Ah
	C10	174.0Ah
	C20	200.0Ah
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	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85V	215.0	162.4	101.3	61.4	42.3	34.6	28.5	19.6	16.8	9.00
1.80V	237.0	171.7	106.6	64.2	44.3	36.3	29.7	20.5	17.4	9.40
1.75V	254.1	177.9	109.2	65.4	45.5	37.2	30.3	20.8	17.5	10.0
1.70V	263.8	180.7	110.2	65.9	45.7	37.5	30.7	21.0	17.7	10.3
1.65V	268.0	181.8	111.3	66.4	46.1	37.7	30.8	21.2	17.9	10.6
1.60V	273.6	183.4	111.8	66.9	46.2	37.9	31.0	21.4	18.1	11.0

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

F.V/Time	15min	30min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr
1.85V	401	313	198	123	84.7	69.1	56.9	39.3	33.7	17.0
1.80V	440	330	207	127	88.5	72.6	59.5	41.0	34.7	18.1
1.75V	471	341	211	129	91.0	74.3	60.6	41.7	35.1	18.4
1.70V	488	345	213	130	91.3	75.0	61.3	42.0	35.4	18.8
1.65V	494	344	215	131	91.7	75.2	61.5	42.3	35.8	19.1
1.60V	502	348	215	131	91.8	75.3	61.7	42.5	36.0	19.5