

# DG12-260(12V260Ah)



## Specification

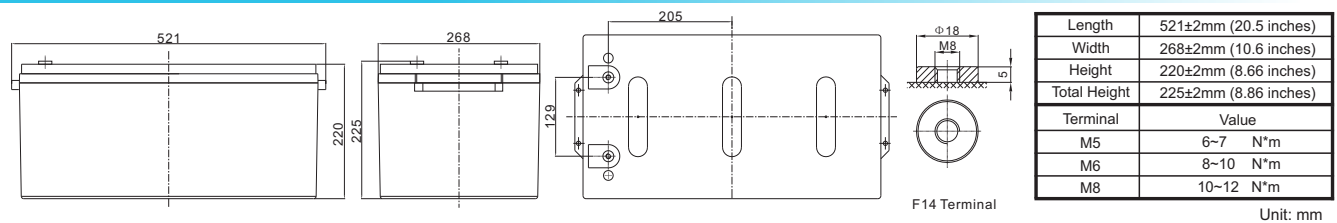
Cells Per Unit	6
Voltage Per Unit	12
Capacity	260Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 72.0 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 4.5 mΩ
Terminal	F14(M8)
Max. Discharge Current	2600A (5 sec)
Design Life	15 years (floating charge)
Max. Charging Current	52.0 A
Reference Capacity	C3 177.6AH C5 200.0AH C10 229.0AH C20 260.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.2 V~14.4 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°C~60°C
Normal Operating Temperature 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 20°C. 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 it can offers 2 times cyclic life than the standard series. It is suitable for solar & wind system, marine, deep discharge UPS etc.



## Dimensions



### Constant Current Discharge Characteristics : A(25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	345.2	226.5	141.2	86.3	64.7	51.6	43.3	29.3	24.1	13.5
1.65V	330.0	217.5	136.3	83.5	62.7	50.2	42.2	28.9	23.8	13.3
1.70V	309.1	207.9	131.9	80.8	61.0	48.8	41.1	28.5	23.5	13.2
1.75V	287.7	198.7	127.1	77.9	59.2	47.6	40.0	28.1	23.2	13.0
1.80V	265.6	189.9	122.2	75.2	57.3	46.2	39.0	27.6	22.9	12.9
1.85V	220.4	163.5	109.6	68.9	53.0	43.0	36.4	25.9	21.5	12.2

### Constant Power Discharge Characteristics : WPC(25°C)

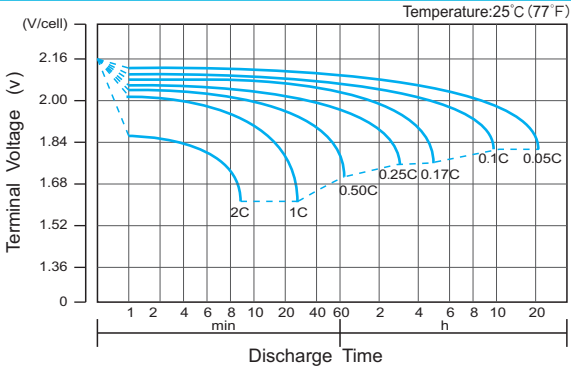
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	685.8	467.5	301.5	185.8	140.4	112.6	94.8	64.9	53.9	30.3
1.65V	659.2	452.7	293.3	180.8	136.9	110.0	92.7	64.2	53.3	29.9
1.70V	632.5	437.9	285.1	175.8	133.5	107.4	90.6	63.5	52.6	29.5
1.75V	597.2	422.8	276.3	170.4	130.1	105.0	88.6	62.7	52.0	29.2
1.80V	559.2	408.2	267.3	165.1	126.5	102.4	86.7	61.8	51.4	28.9
1.85V	470.6	355.1	241.2	152.1	117.5	95.5	81.1	58.2	48.4	27.5

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C<sub>20</sub> should reach 95% after the first cycle and 100% after the third cycle.

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## Discharge Characteristics Curve



## Charge Characteristic Curve for Cycle Use(IU)



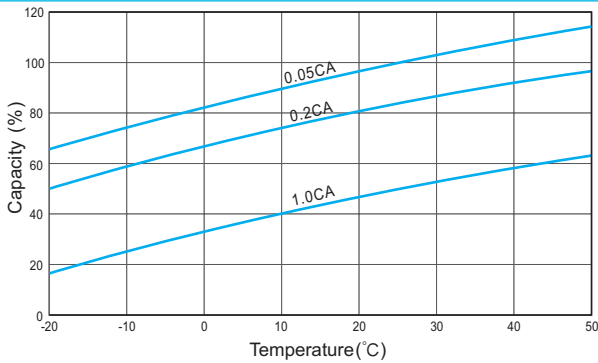
## Cycle Life in Relation to Depth of Discharge



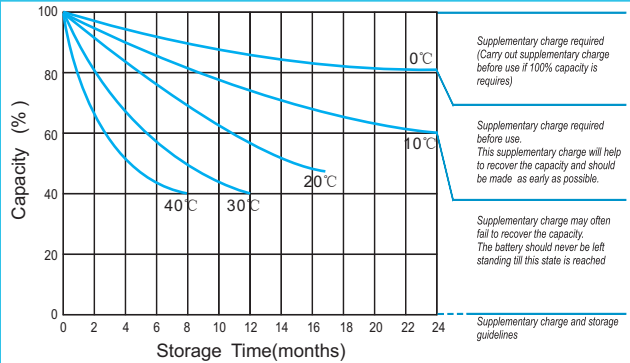
## Relationship Between Charging Voltage and Temperature



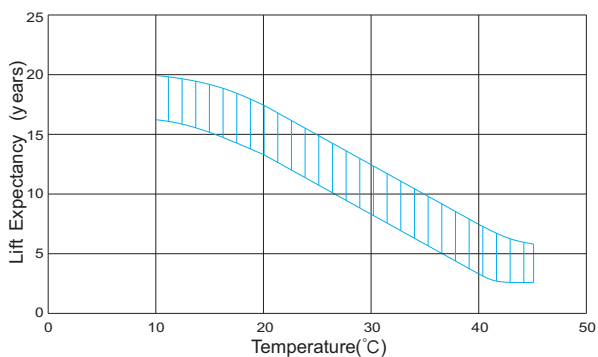
## Temperature Effects on Capacity



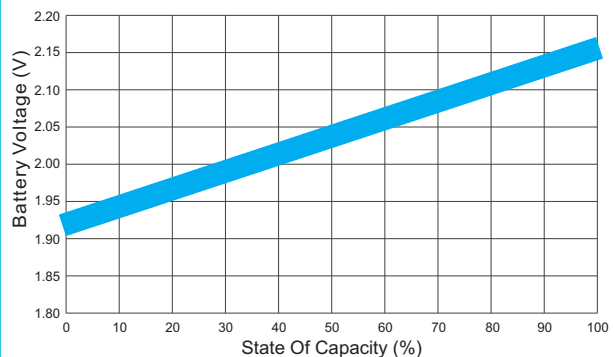
## Storage Characteristics



## Effect of Temperature on Long Term Life



## Relationship of OCV And State of Charge(20°C)



(Note) All above information shall be changed without prior notice, Ritar reserves the right to explain and update the latest information.