

# DG12-26(12V26Ah)



## Specification

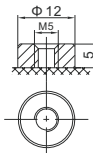
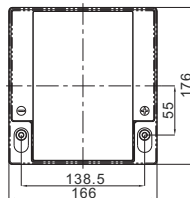
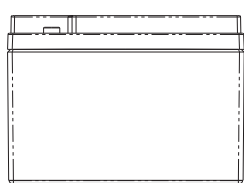
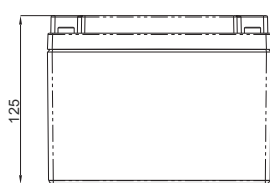
Cells Per Unit	6
Voltage Per Unit	12
Capacity	26Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 8.1 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 17.0 mΩ
Terminal	F3(M5)/F13-BP (M5) /T24 (M5)
Max. Discharge Current	260A (5 sec)
Design Life	15 years (floating charge)
Max. Charging Current	5.2 A
Reference Capacity	C3 17.8AH C5 20.0AH C10 22.9AH C20 26.0AH
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



F13-BP TERMINAL

Length	166±2mm (6.54 inches)
Width	176±2mm (6.93 inches)
Height	125±2mm (4.92 inches)
Total Height	125±2mm (4.92 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

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

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	42.6	34.5	22.7	14.1	8.63	6.47	5.16	4.33	2.93	2.41	1.35
1.65V	40.2	33.0	21.7	13.6	8.35	6.27	5.02	4.22	2.89	2.38	1.33
1.70V	37.0	30.9	20.8	13.2	8.08	6.10	4.88	4.11	2.85	2.35	1.32
1.75V	33.9	28.8	19.9	12.7	7.79	5.92	4.76	4.00	2.81	2.32	1.30
1.80V	30.7	26.6	19.0	12.2	7.52	5.73	4.62	3.90	2.76	2.29	1.29
1.85V	25.1	22.0	16.4	11.0	6.89	5.30	4.30	3.64	2.59	2.15	1.22

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

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	82.2	68.6	46.8	30.2	18.6	14.0	11.3	9.48	6.49	5.39	3.03
1.65V	78.2	65.9	45.3	29.3	18.1	13.7	11.0	9.27	6.42	5.33	2.99
1.70V	74.2	63.3	43.8	28.5	17.6	13.3	10.7	9.06	6.35	5.26	2.95
1.75V	69.2	59.7	42.3	27.6	17.0	13.0	10.5	8.86	6.27	5.20	2.92
1.80V	63.7	55.9	40.8	26.7	16.5	12.7	10.2	8.67	6.18	5.14	2.89
1.85V	53.0	47.1	35.5	24.1	15.2	11.7	9.55	8.11	5.82	4.84	2.75

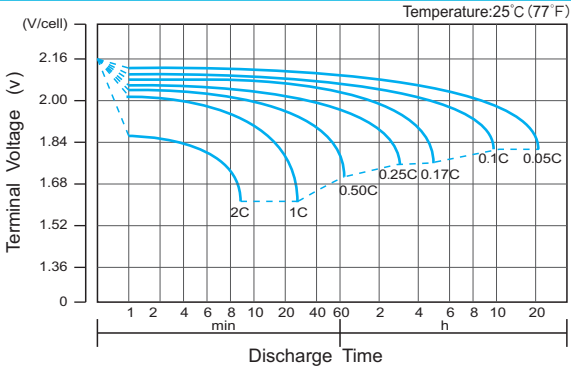
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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)



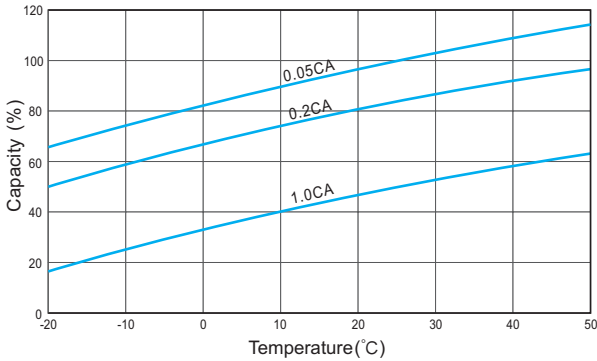
## Cycle Life in Relation to Depth of Discharge



## Relationship Between Charging Voltage and Temperature



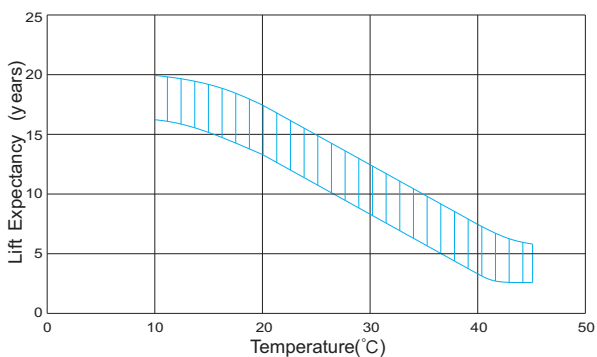
## Temperature Effects on Capacity



## 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.