

# RTG12-150A

## (12V150Ah)

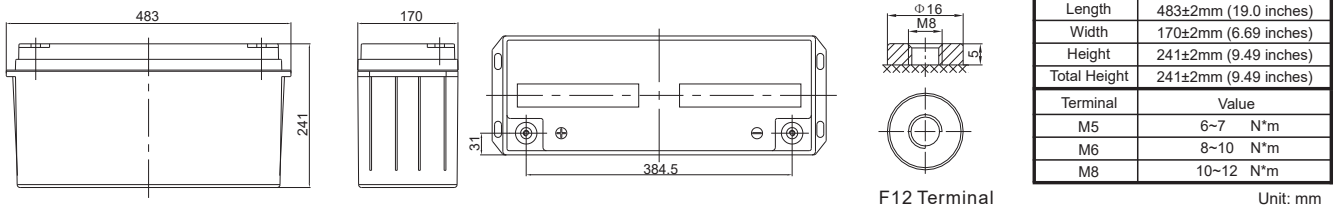


- Non-spillable sealed construction
- Long service life, float or cyclic applications
- High strength ABS battery container
- Maintenance-free operation
- Excellent charge acceptance
- Low self-discharge rate
- Gas recombination efficiency over 99%
- Wide operating temperature range
- Excellent recovery capability after deep and cyclic discharge

### SPECIFICATION

Cells Per Unit	6
Voltage Per Unit	12
Capacity	150Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 43.0 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 6.0 mΩ
Terminal	F12(M8)/F5 (M8)
Max. Discharge Current	1500A (5 sec)
Design Life	15 years (floating charge)
Max. Charging Current	30.0 A
Reference Capacity	C3 102.3AH C5 115.5AH C10 132.0AH C20 150.0AH
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.

### DIMENSIONS



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

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

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

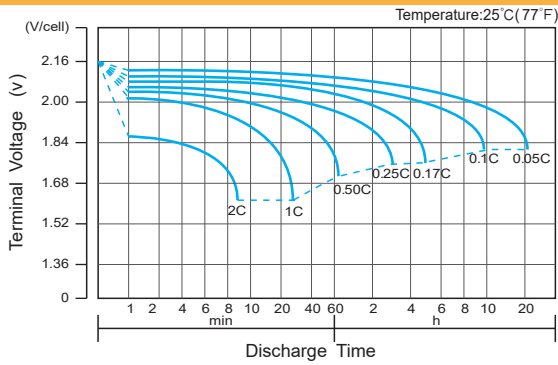
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	474.4	395.7	269.7	173.9	107.2	81.0	65.0	54.7	37.5	31.1	17.5
1.65V	451.4	380.3	261.2	169.2	104.3	79.0	63.4	53.5	37.1	30.7	17.2
1.70V	428.4	364.9	252.6	164.5	101.4	77.0	61.9	52.3	36.6	30.3	17.0
1.75V	399.2	344.5	243.9	159.4	98.3	75.0	60.6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

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

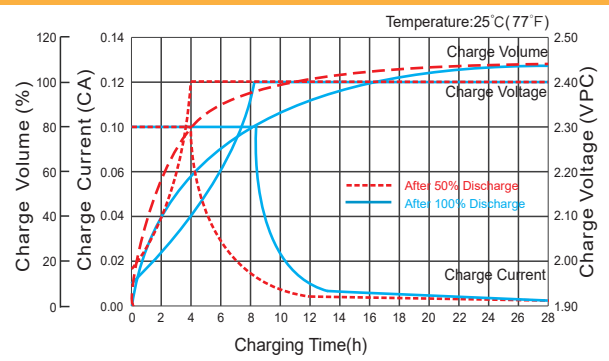
The battery must be fully charged before the capacity test. The C<sub>20</sub> should reach 95% after the first cycle and 100% after the third cycle.

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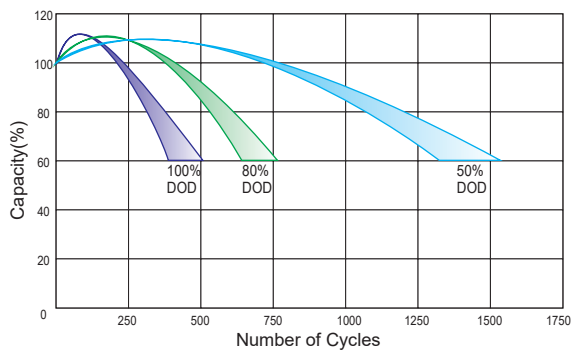
## Discharge Characteristics Curve



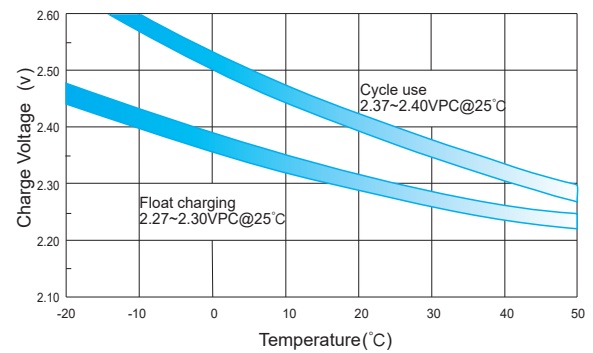
## Charge Characteristic Curve for Cycle Use (IU)



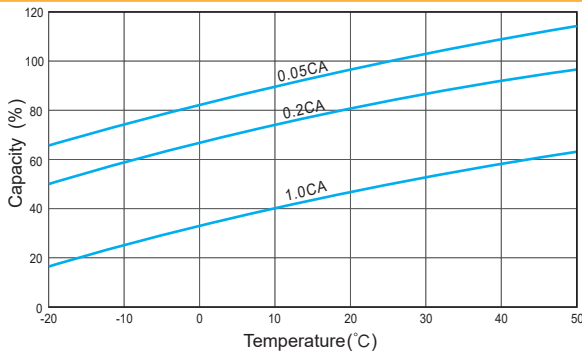
## Cycle Life in Relation to Depth of Discharge



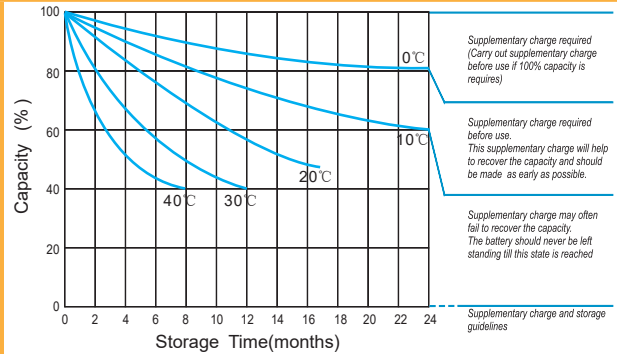
## Relationship Between Charging Voltage and Temperature



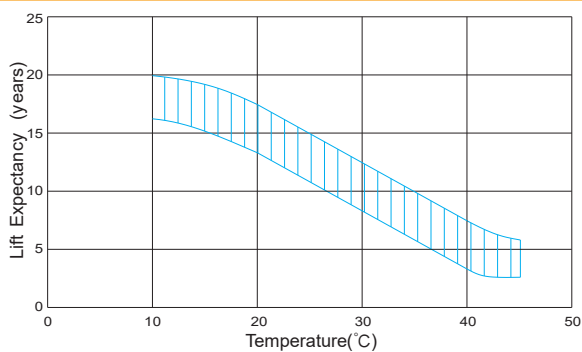
## Temperature Effects on Capacity



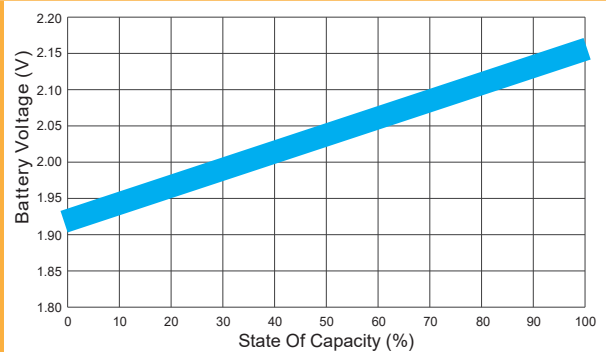
## Storage Characteristics



## Effect of Temperature on Long Term Life



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



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