

# FT12-150G(12V150Ah)



## Specification

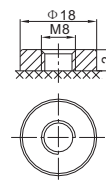
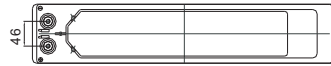
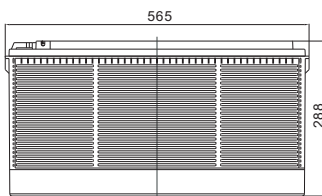
Cells Per Unit	6
Voltage Per Unit	12
Capacity	150Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 43.5 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 6.0 mΩ
Terminal	F9(M8)
Max. Discharge Current	1500A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	30.0 A
Reference Capacity	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.



FTG (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 FTG series offers excellent recovery capability after deep discharge under frequent cyclic discharge use, and can deliver 450 cycles at 100% DOD. Suitable for solar & wind system, CATV, marine, RV and deep discharge UPS, and telecommunication, etc.



## Dimensions



F9 Terminal

Length	565±2mm (22.2 inches)
Width	110±2mm (4.33 inches)
Height	288±2mm (11.3 inches)
Total Height	288±2mm (11.3 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	230.9	187.3	122.9	81.5	49.8	37.3	29.8	25.0	16.9	13.9	7.81
1.65V	218.2	179.1	118.0	78.7	48.2	36.2	29.0	24.3	16.7	13.8	7.68
1.70V	200.8	167.7	112.8	76.1	46.6	35.2	28.2	23.7	16.4	13.5	7.59
1.75V	183.8	156.1	107.8	73.3	45.0	34.1	27.5	23.1	16.2	13.4	7.50
1.80V	166.4	144.1	103.1	70.5	43.4	33.1	26.7	22.5	15.9	13.2	7.42
1.85V	136.0	119.6	88.8	63.2	39.7	30.6	24.8	21.0	15.0	12.4	7.05

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

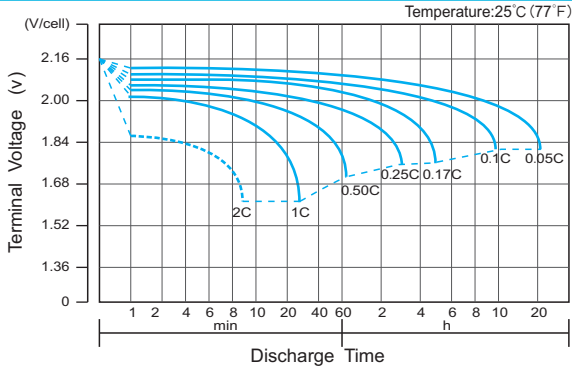
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	445.9	372.1	253.8	173.9	107.2	81.0	65.0	54.7	37.5	31.1	17.5
1.65V	424.3	357.7	245.7	169.2	104.3	79.0	63.4	53.5	37.1	30.7	17.2
1.70V	402.7	343.2	237.7	164.5	101.4	77.0	61.9	52.3	36.6	30.3	17.0
1.75V	375.2	324.0	229.5	159.4	98.3	75.0	60.6	51.1	36.2	30.0	16.8
1.80V	345.6	303.4	221.6	154.2	95.3	73.0	59.1	50.0	35.7	29.6	16.7
1.85V	287.5	255.4	192.7	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.

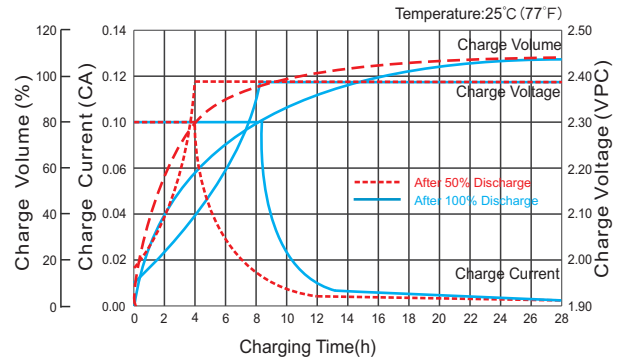
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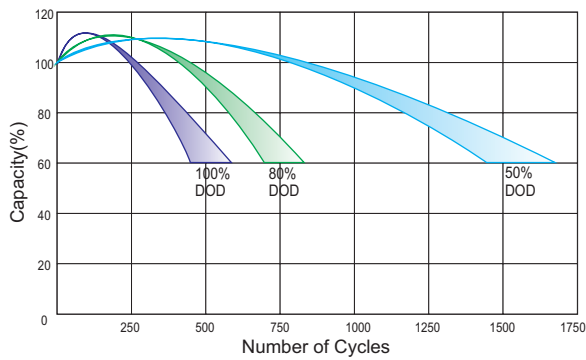
## Discharge Characteristics Curve



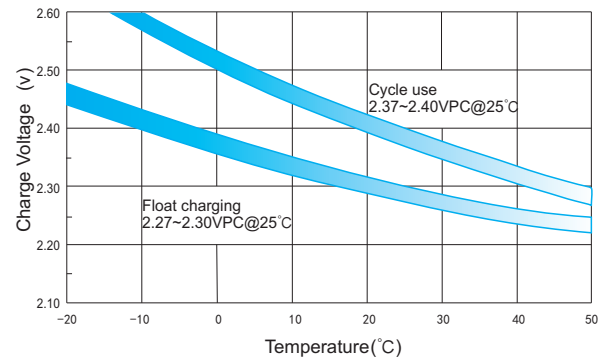
## Charge Characteristic Curve for Cycle Use(IU)



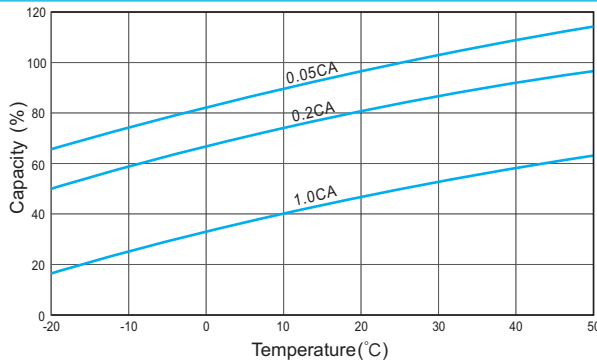
## Cycle Life in Relation to Depth of Discharge



## Relationship Between Charging Voltage and Temperature



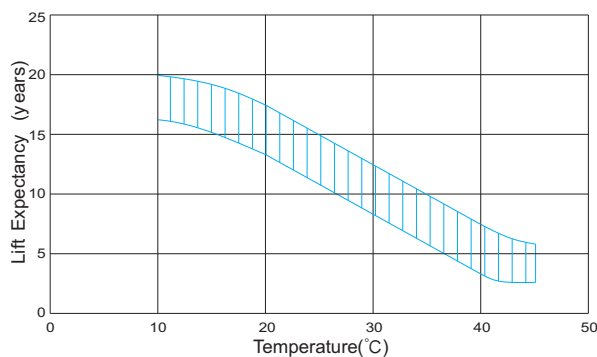
## Temperature Effects on Capacity



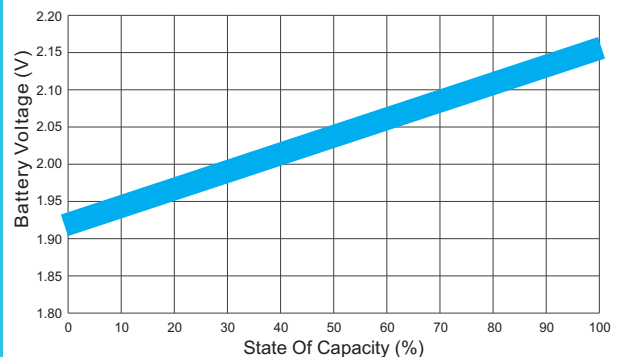
## Storage Characteristics



## Effect of Temperature on Long Term Life



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



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