FT12-150G(12V150Ah)

RITAR®

Specification

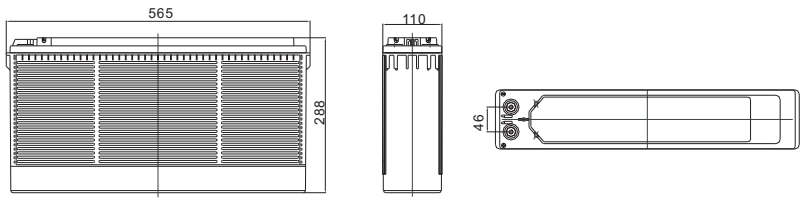
Cells Per Unit	6
Voltage Per Unit	12
Capacity	150Ah@20hr-rate to 1.75V per cell @25℃
Weight	Approx. 43.5 Kg (Tolerance±1.5%)
Internal Resistance	Approx. 6.0 mΩ
Terminal	F9(M8)
Max. Discharge Current	1500A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	30.0 A
Reference Capacity	C3 102.3AH C5 113.5AH C10 130.0AH C20 150.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	14.2 V~14.4 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -40℃~60℃ Charge: -20℃~50℃ Storage: -40℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25℃ and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25℃.Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

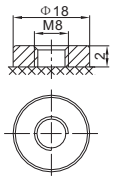
FTG (Deep Cycle GEL) series is pure GEL battery with 15 years floating design life , it is ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids, high purity lead and patented Gel electrolyte, the FTG series offers excellent recovery capability 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.

IQNet CERTIFICATE IQNet CERTIFICATE

MH28539 G4M20206-0910-E-16

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℃)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	205.2	137.5	83.8	50.2	34.7	28.4	23.3	16.0	13.5	8.25
1.65V	201.0	136.4	83.5	49.8	34.5	28.3	23.1	15.9	13.4	7.95
1.70V	197.9	135.5	82.7	49.4	34.3	28.2	23.0	15.8	13.3	7.73
1.75V	190.6	133.4	81.9	49.0	34.1	27.9	22.7	15.6	13.2	7.50
1.80V	177.7	128.8	80.0	48.2	33.2	27.2	22.3	15.4	13.0	7.05
1.85V	161.3	121.8	76.0	46.0	31.8	25.9	21.3	14.7	12.6	6.75

Constant Power Discharge Characteristics : WPC(25℃)

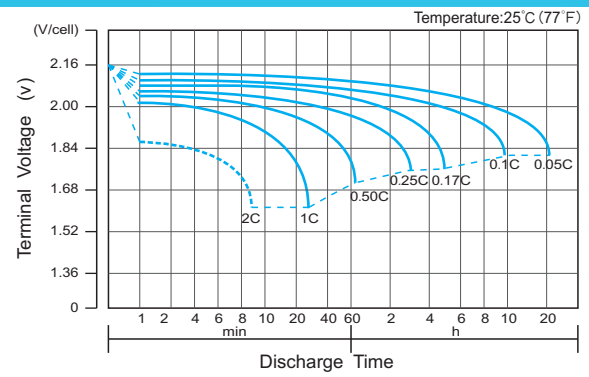
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	376	261	161	98.6	68.8	56.5	46.3	31.9	27.0	14.6
1.65V	370	258	161	98.0	68.8	56.4	46.1	31.7	26.8	14.3
1.70V	366	259	160	97.4	68.5	56.3	46.0	31.5	26.6	14.1
1.75V	353	255	158	96.7	68.2	55.7	45.4	31.3	26.3	13.8
1.80V	330	247	155	95.5	66.4	54.5	44.6	30.7	26.1	13.5
1.85V	301	234	149	92.0	63.5	51.8	42.7	29.4	25.3	12.7

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

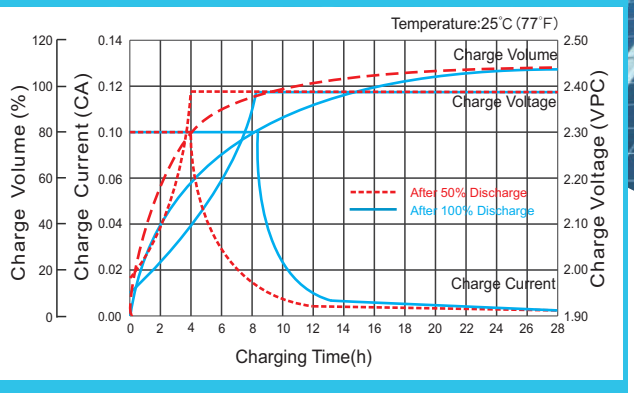
FT12-150G(12V150Ah)

RITAR®

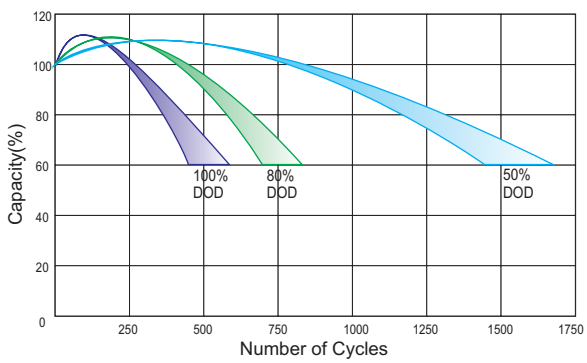
Discharge Characteristics Curve



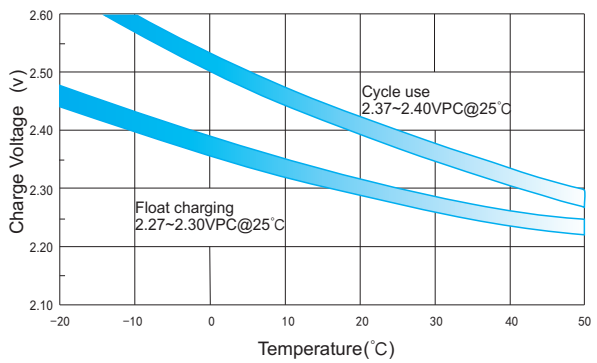
Charge Characteristic Curve for Cycle Use(IU)



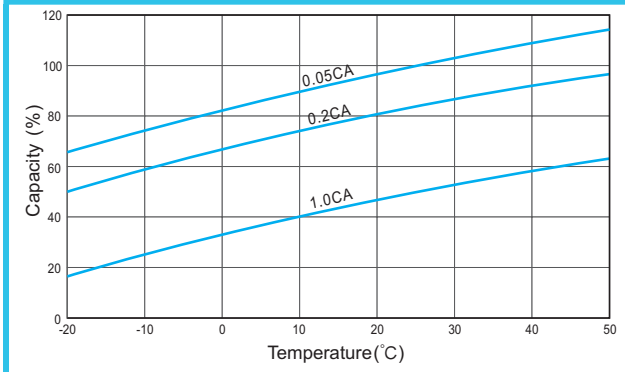
Cycle Life in Relation to Depth of Discharge



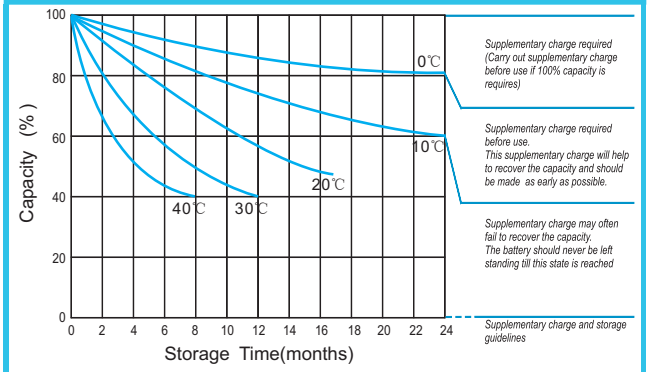
Relationship Between Charging Voltage and Temperature



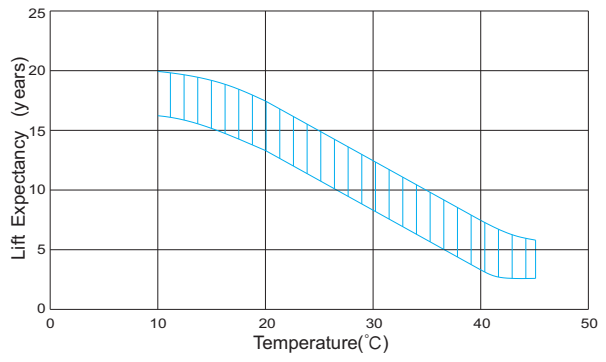
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)