

FT12-150D (12V150Ah)

RITAR®

Specification

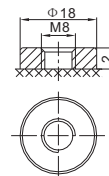
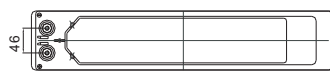
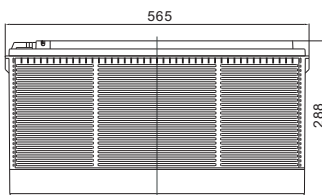
Cells Per Unit	6
Voltage Per Unit	12
Capacity	150Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 43.5 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 4.0 mΩ
Terminal	F9(M8)
Max. Discharge Current	1500A (5 sec)
Design Life	12 years (floating charge)
Maximum Charging Current	45 A
Reference Capacity	C3 111.9AH C5 128.5AH C10 150.0AH C20 158.6AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°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 3% at 25°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



FTD (Front Terminal Deep Cycle) series batteries provide superior high integrity and reliability. It is specially designed for frequent cyclic charge and discharge. By using strong grid, thick plate and special active material are designed for repeated deep-discharge applications. The FTD series battery offers 30% more cyclic life than the standby series. And the dimensions are designed for 19" and 23" cabinet installation. It is suitable for telecom, solar and wind renewable energy storage, mobility and medical equipment, RV, broadband and cable TV, UPS systems 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	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	262.0	155.8	91.4	54.8	39.4	32.0	27.0	18.4	16.0	8.20
1.65V	255.1	152.4	89.7	54.0	38.9	31.6	26.7	18.2	15.8	8.13
1.70V	246.1	147.9	87.5	52.9	38.2	31.1	26.3	18.0	15.6	8.05
1.75V	234.3	141.9	84.5	51.5	37.3	30.4	25.7	17.7	15.4	7.93
1.80V	219.2	134.3	80.7	49.6	36.0	29.5	25.0	17.2	15.0	7.78
1.85V	200.1	124.5	75.7	47.2	34.5	28.2	24.1	16.6	14.5	7.57

Constant Power Discharge Characteristics : WPC(25°C)

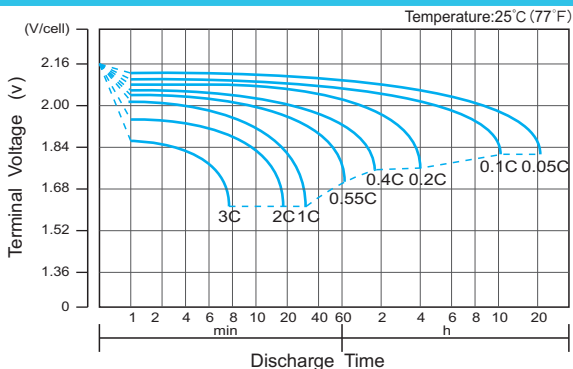
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	465	287	174	105	76.4	62.4	52.9	36.5	31.9	16.4
1.65V	462	285	172	105	75.8	61.9	52.5	36.3	31.6	16.3
1.70V	450	278	168	103	74.7	61.0	51.8	35.8	31.2	16.1
1.75V	434	270	164	101	73.2	59.9	50.9	35.2	30.7	15.9
1.80V	412	258	157	97.4	71.1	58.3	49.6	34.4	30.1	15.6
1.85V	382	241	148	93.2	68.2	56.1	47.9	33.4	29.2	15.2

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

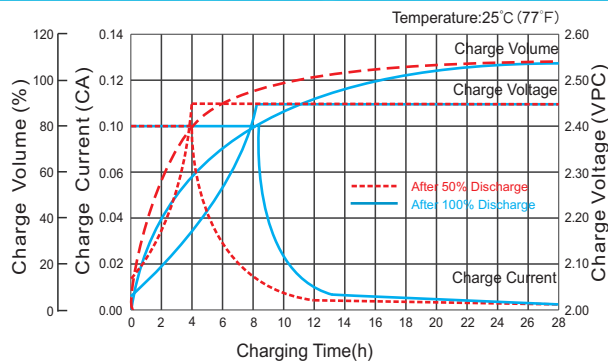
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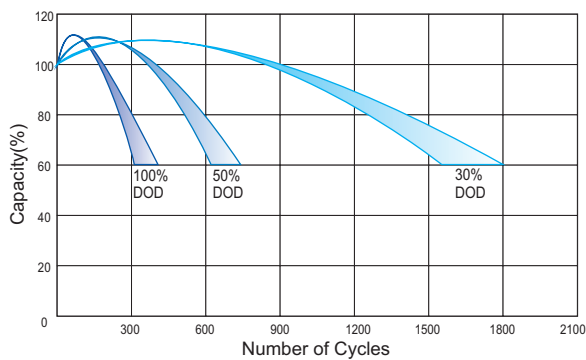
Discharge Characteristics Curve



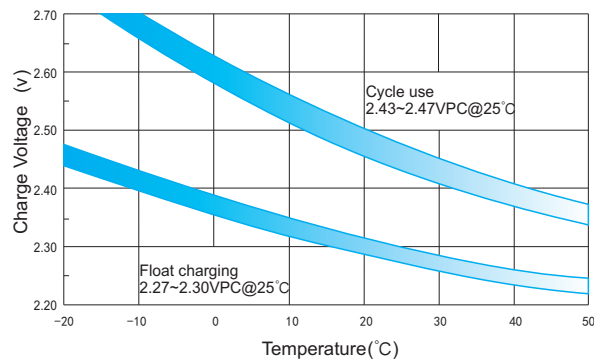
Charge Characteristic Curve for Cycle Use(IU)



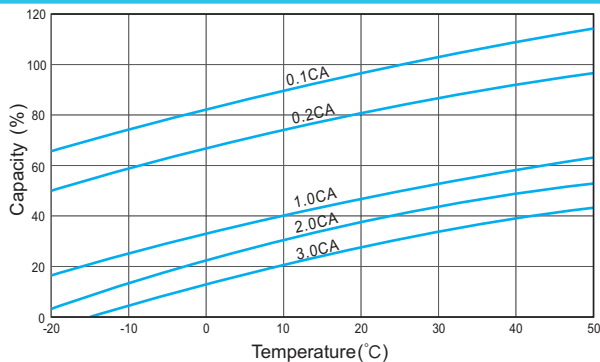
Cycle Life in Relation to Depth of Discharge



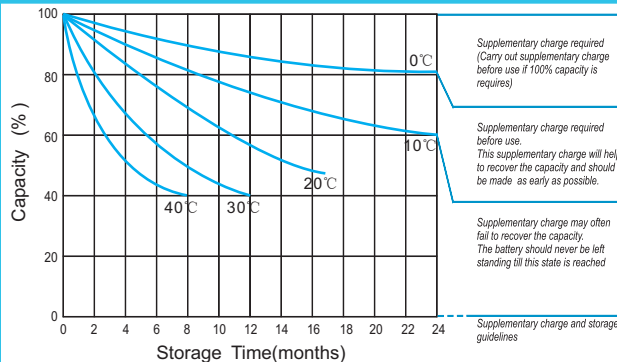
Relationship Between Charging Voltage and Temperature



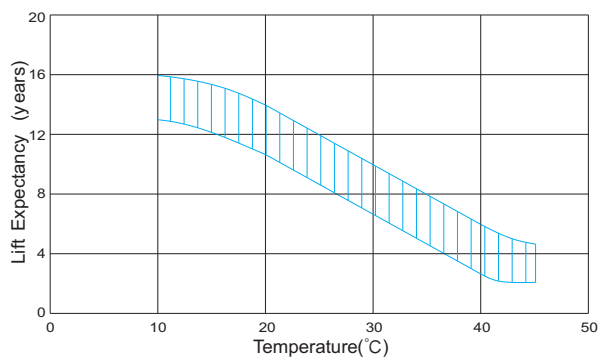
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



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

