FT12-185DL(12V185Ah)

RITAR®

Specification

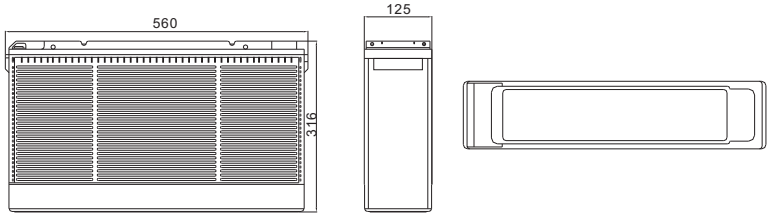
Cells Per Unit	6
Voltage Per Unit	12
Capacity	185Ah@20hr-rate to 1.75V per cell @25℃
Weight	Approx. 60.0 Kg (Tolerance±1.5%)
Internal Resistance	Approx. 4.0 mΩ
Terminal	F9(M8)
Max. Discharge Current	1850A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	55.5 A
Reference Capacity	C3 130.5AH C5 150.0AH C10 175.0AH C20 185.0AH
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: -20℃~60℃ Charge: 0℃~50℃ Storage: -20℃~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.

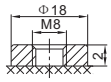
FTD (Front Terminal Deep Cycle)series batteries provide superior high integrity and reliability.It is specially designed for frequent cyclic charge and discharge. By using strong grids,thick plate and special active material are designed for repeated deep-discharge applications. The FTD series battery 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,telecom,broadband and cable TV,UPS systems etc.

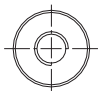
IQNet CERTIFICATE IQNet CERTIFICATE

MH28539 G4M20206-0910-E-16

Dimensions







F9 Terminal

Length	560±2mm (22.1 inches)
Width	125±2mm (4.92 inches)
Height	316±2mm (12.4 inches)
Total Height	316±2mm (12.4 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	298.2	181.7	105.6	63.2	46.0	37.3	31.5	21.5	18.6	9.56
1.65V	290.4	177.7	103.6	62.3	45.3	36.9	31.1	21.3	18.5	9.49
1.70V	280.1	172.4	101.0	61.1	44.5	36.2	30.7	21.0	18.2	9.39
1.75V	266.7	165.5	97.6	59.5	43.5	35.4	30.0	20.6	17.9	9.25
1.80V	249.5	156.6	93.2	57.3	42.0	34.3	29.2	20.1	17.5	9.07
1.85V	227.8	145.1	87.4	54.5	40.2	32.9	28.1	19.4	16.9	8.83

Constant Power Discharge Characteristics : WPC(25℃)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	529	335	200	122	89.1	72.7	61.7	42.6	37.2	19.1
1.65V	526	332	199	121	88.5	72.2	61.3	42.3	36.9	19.0
1.70V	512	324	194	119	87.1	71.2	60.4	41.8	36.4	18.8
1.75V	495	315	189	116	85.3	69.8	59.4	41.1	35.9	18.6
1.80V	469	301	181	112	82.9	67.9	57.9	40.2	35.1	18.2
1.85V	434	281	171	108	79.6	65.4	55.9	38.9	34.0	17.8

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

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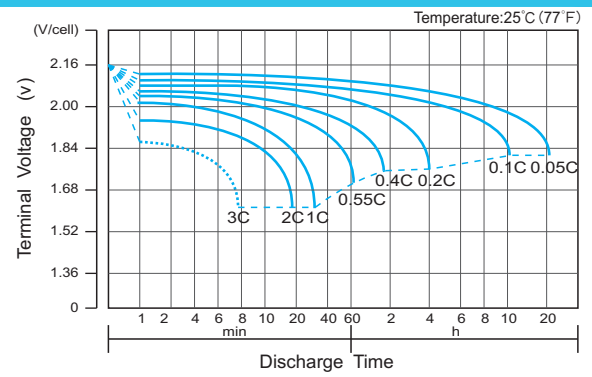
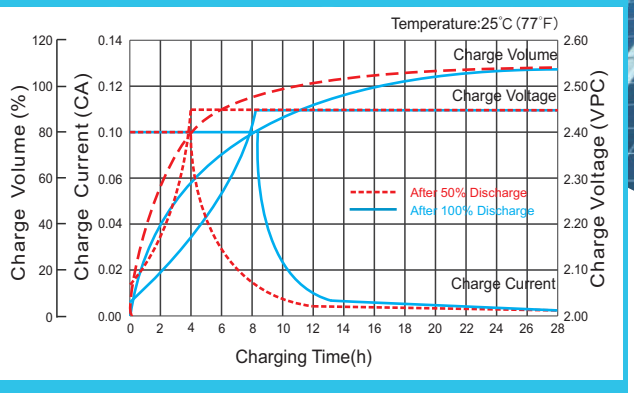
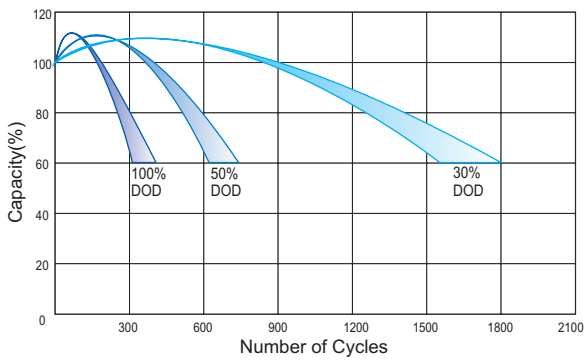
Discharge Characteristics Curve



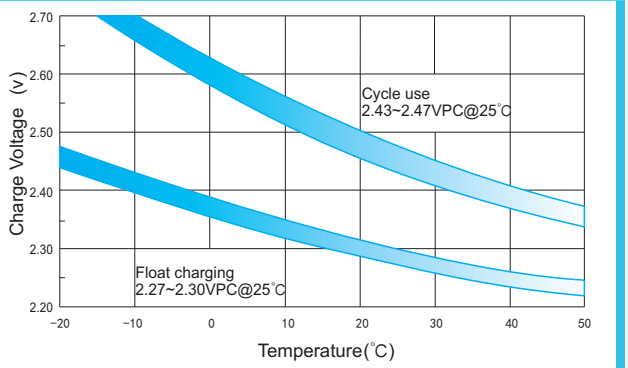
Charge Characteristic Curve for Cycle Use(IU)



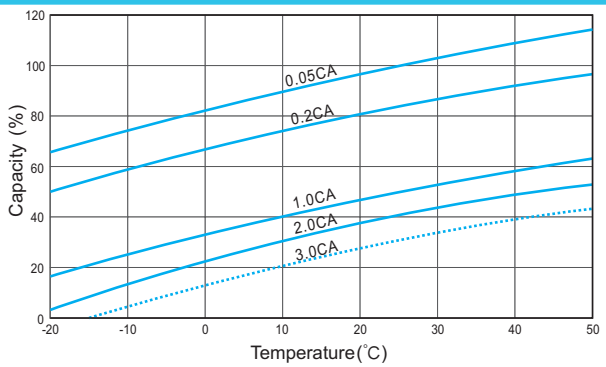
Cycle Life in Relation to Depth of Discharge



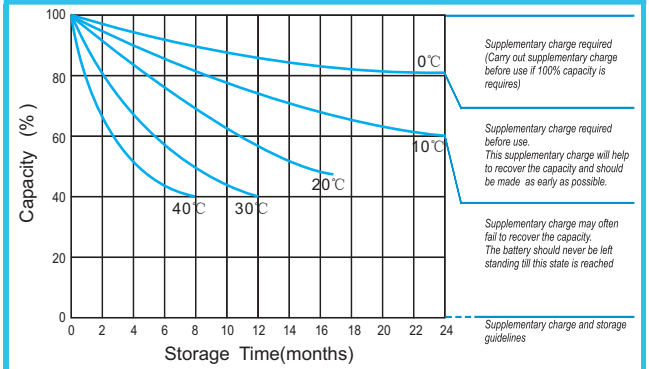
Relationship Between Charging Voltage and Temperature



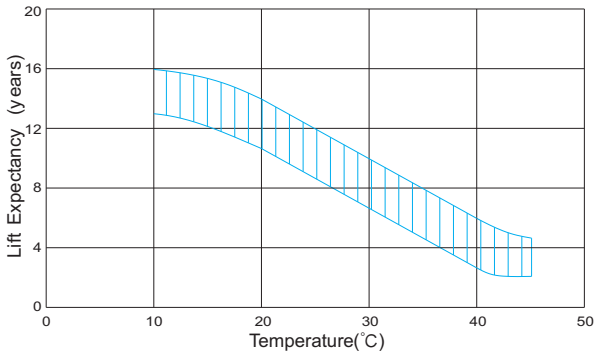
Temperature Effects on Capacity



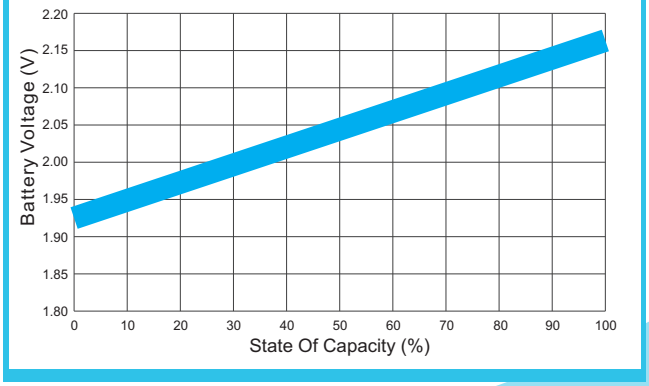
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)



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