



# FT12-100L (12V100Ah)

## Specification

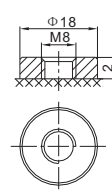
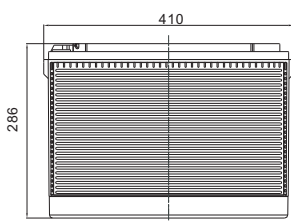
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	100Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 33.0 Kg (Tolerance ±2%)
Internal Resistance	Approx. 4.8 mΩ
Terminal	F9(M8)
Max. Discharge Current	1000A (5 sec)
Design Life	12 years (Float charging)
Recommended Maximum Charging Current	30 A
Reference Capacity	C3 75.3AH C5 86.5AH C10 100.0AH C20 105.8AH
Standby Use 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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



FT (Front Terminal) Series is specially designed for telecom use with 12 years design life in float service. By adopting a new AGM separator and centralized venting system, the battery can be installed in any position while maintaining high reliability. The dimensions of the FT series are designed for 19" and 23" cabinet installation. It is suitable for telecom EPS/UPS applications.



## Dimensions



F9 Terminal

Length	410±2mm (16.1 inches)
Width	110±2mm (4.33 inches)
Height	286±2mm (11.3 inches)
Total Height	286±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	181.2	105.9	61.6	36.9	26.5	21.6	18.2	12.4	10.6	5.47
1.65V	176.5	103.6	60.4	36.3	26.2	21.3	18.0	12.3	10.5	5.42
1.70V	170.2	100.5	58.9	35.6	25.7	20.9	17.7	12.1	10.4	5.36
1.75V	162.1	96.5	56.9	34.7	25.1	20.5	17.3	11.9	10.2	5.29
1.80V	151.7	91.3	54.3	33.4	24.3	19.8	16.8	11.6	10.0	5.18
1.85V	138.5	84.6	51.0	31.8	23.2	19.0	16.2	11.2	9.68	5.05

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

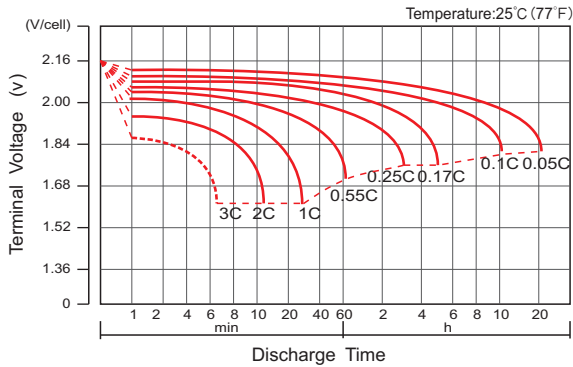
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	322	195	117	71.0	51.4	42.0	35.6	24.6	21.2	10.9
1.65V	320	194	116	70.4	51.1	41.7	35.4	24.4	21.1	10.9
1.70V	311	189	113	69.2	50.3	41.1	34.9	24.1	20.8	10.8
1.75V	301	183	110	67.7	49.3	40.3	34.3	23.7	20.5	10.6
1.80V	285	175	106	65.6	47.8	39.2	33.4	23.2	20.0	10.4
1.85V	264	164	99.8	62.8	45.9	37.7	32.2	22.5	19.4	10.2

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

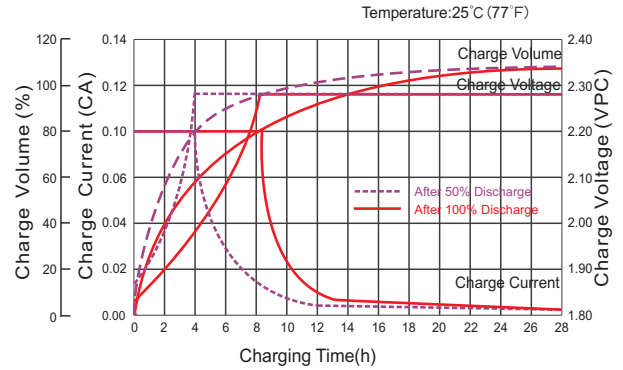
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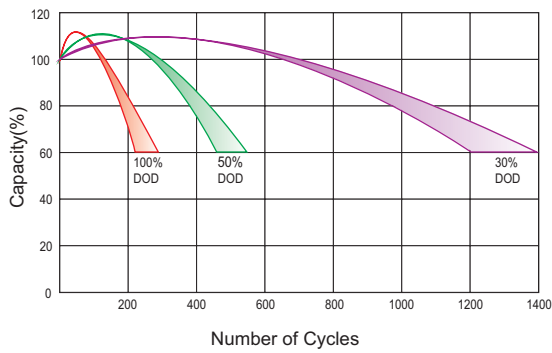
## Discharge Characteristics Curve



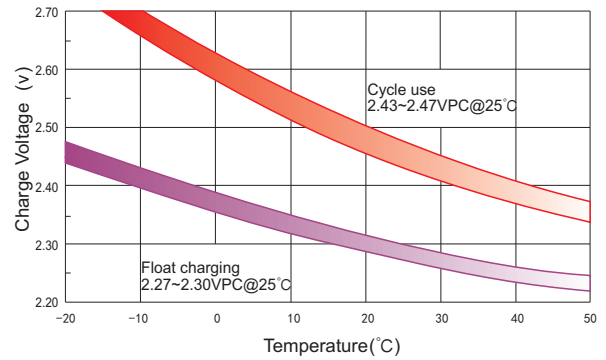
## Charge Characteristic Curve For Standby Use



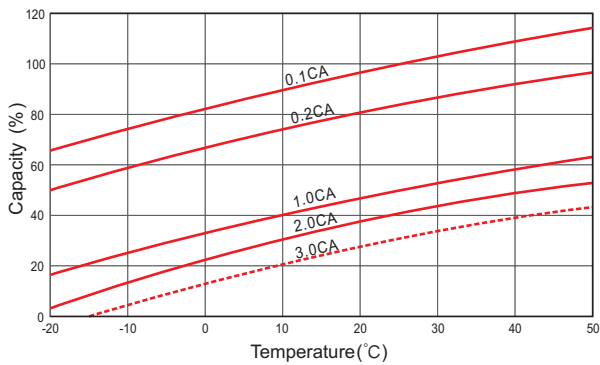
## Cycle Life In Relation To Depth Of Discharge



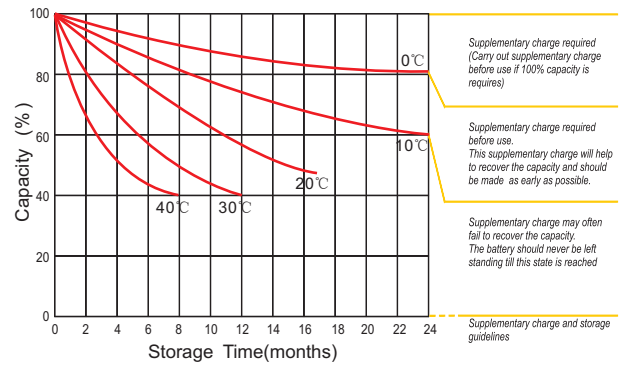
## Relationship Between Charging Voltage And Temperature



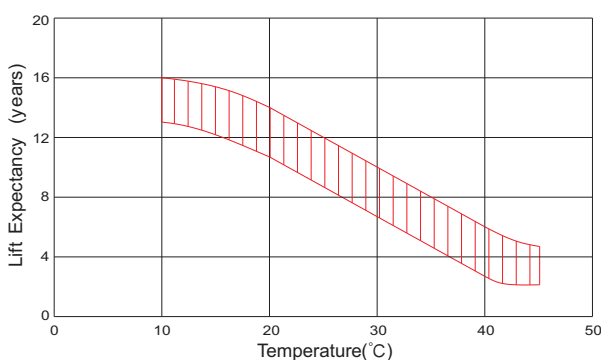
## Temperature Effects On Capacity



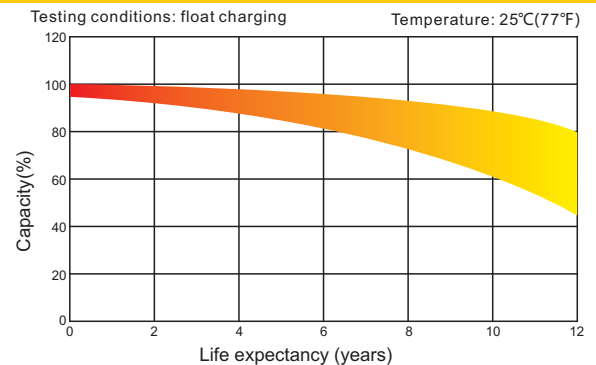
## Storage Characteristics



## Effect Of Temperature On Long Term Life



## Life Characteristics Of Standby Use



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