



FT12-100(12V100Ah)

Specification

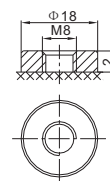
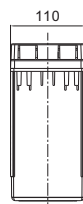
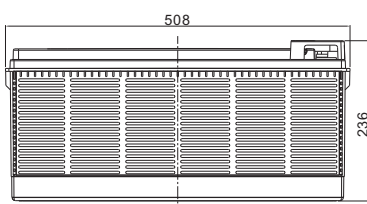
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	100Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 30.0 Kg (Tolerance ±2%)
Internal Resistance	Approx. 5.5 mΩ
Terminal	F14(M8)
Max. Discharge Current	1000A (5 sec)
Design Life	12 years (Float charging)
Recommended Maximum Charging Current	30 A
Reference Capacity	C3 74.4AH C5 86.0AH 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



F14 Terminal

Length	508±2mm (20.0 inches)
Width	110±2mm (4.33 inches)
Height	236±2mm (9.29 inches)
Total Height	236±2mm (9.29 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	177.7	103.9	61.0	36.5	26.3	21.3	18.0	12.3	10.6	5.47
1.65V	173.0	101.6	59.8	36.0	25.9	21.1	17.8	12.2	10.5	5.42
1.70V	166.9	98.6	58.3	35.3	25.5	20.7	17.5	12.0	10.4	5.36
1.75V	158.9	94.6	56.4	34.3	24.8	20.3	17.2	11.8	10.2	5.29
1.80V	148.7	89.5	53.8	33.1	24.0	19.6	16.7	11.5	10.0	5.18
1.85V	135.7	83.0	50.5	31.5	23.0	18.8	16.0	11.1	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	315	191	116	70.2	50.9	41.6	35.2	24.3	21.2	10.9
1.65V	313	190	115	69.7	50.6	41.3	35.0	24.2	21.1	10.9
1.70V	305	185	112	68.6	49.8	40.7	34.5	23.9	20.8	10.8
1.75V	295	180	109	67.0	48.8	39.9	33.9	23.5	20.5	10.6
1.80V	280	172	105	65.0	47.4	38.8	33.1	23.0	20.0	10.4
1.85V	259	161	98.8	62.1	45.5	37.4	31.9	22.2	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.