



FT12-55(12V55Ah)

Specification

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	55Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 18 Kg (Tolerance ±3%)
Internal Resistance	Approx. 7.5 mΩ
Terminal	F11(M6)
Max. Discharge Current	550A (5 sec)
Design Life	12 years (Float charging)
Recommended Maximum Charging Current	16.5 A
Reference Capacity	C3 41.1AH C5 47.2AH C10 55.0AH C20 58.2AH
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 charged 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

Length	291±2mm (11.5 inches)
Width	106±2mm (4.17 inches)
Height	230±2mm (9.06 inches)
Total Height	230±2mm (9.06 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	97.7	57.1	33.5	20.1	14.4	11.7	9.91	6.76	5.86	3.01
1.65V	95.2	55.9	32.9	19.8	14.3	11.6	9.79	6.69	5.80	2.98
1.70V	91.8	54.2	32.1	19.4	14.0	11.4	9.64	6.60	5.73	2.95
1.75V	87.4	52.0	31.0	18.9	13.7	11.1	9.44	6.48	5.63	2.91
1.80V	81.8	49.2	29.6	18.2	13.2	10.8	9.17	6.32	5.50	2.85
1.85V	74.7	45.6	27.8	17.3	12.6	10.4	8.82	6.10	5.32	2.78

Constant Power Discharge Characteristics : WPC (25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	173	105	63.6	38.6	28.0	22.9	19.4	13.4	11.7	6.01
1.65V	172	105	63.1	38.3	27.8	22.7	19.3	13.3	11.6	5.97
1.70V	168	102	61.7	37.7	27.4	22.4	19.0	13.1	11.5	5.91
1.75V	162	98.9	60.0	36.9	26.8	22.0	18.7	12.9	11.3	5.83
1.80V	154	94.5	57.5	35.7	26.1	21.4	18.2	12.6	11.0	5.73
1.85V	142	88.5	54.4	34.2	25.0	20.6	17.6	12.2	10.7	5.58

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

FT12-55(12V55Ah)



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.