

The **Front Terminal** series is specifically 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.

Specifications:

Nominal Voltage	12 volts		
Nominal Capacity	77° F (25° C)		
20-hr. (11.0 A)	220 Ah		
10-hr. (20.5 A)	205 Ah		
5-hr. (37.4 A)	187 Ah		
1-hr. (132 A)	132 Ah		
Approximate Weight	127 lbs (57.5 kgs)		
Internal Resistance (approx.)	4.0mΩ		
Design Life	12 Years (float charge)		
Shelf Life % of normal capacity at 68° F (20° C)			
3 Months	6 Months	12 Months	
91%	83%	64%	
AGM Operational Temperature			
Charge	32°F to 122°F (0°C to 50°C)		
Discharge	-4° F to 140°F (-20°C to 60°C)		
AGM Storage Temperature	-4° F to 140°F (-20°C to 60°C)		
Normal Operating Temperature	77 F°(25°C)		
Container Material	A.B.S. UL94-HB, UL94-V0 Optional		

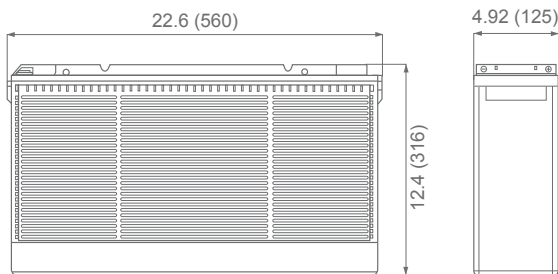

Charge Method (Constant Voltage)

Cycle Use (Repeating Use)

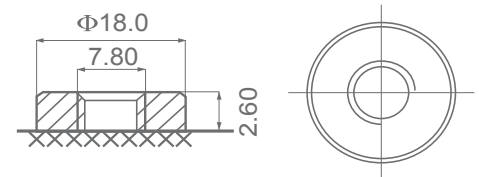
Initial Current	66 A or smaller
Control Voltage	14.6 - 14.8 V

Float Use

Control Voltage	13.6 - 13.8 V
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Physical Dimensions: in (mm)


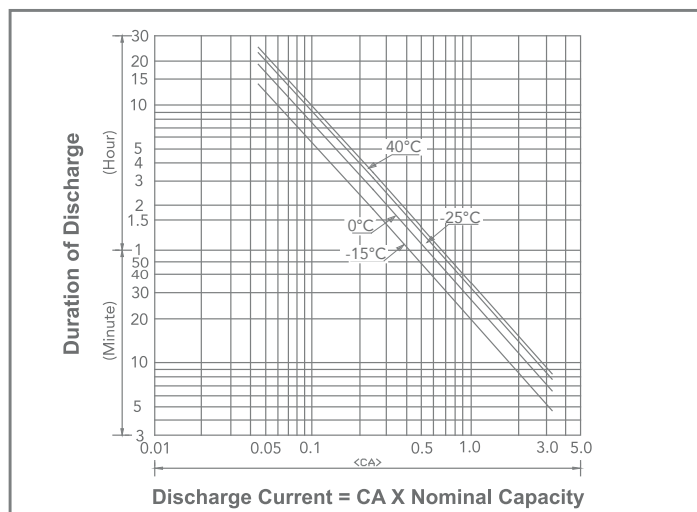
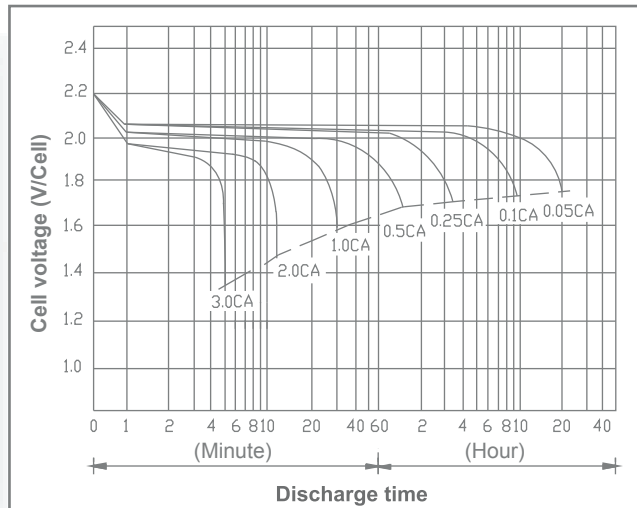
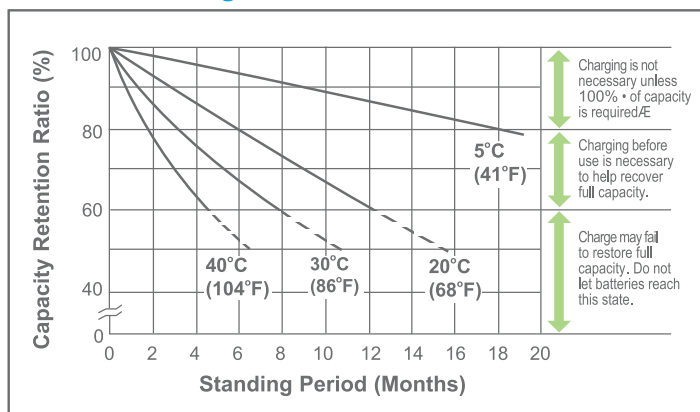
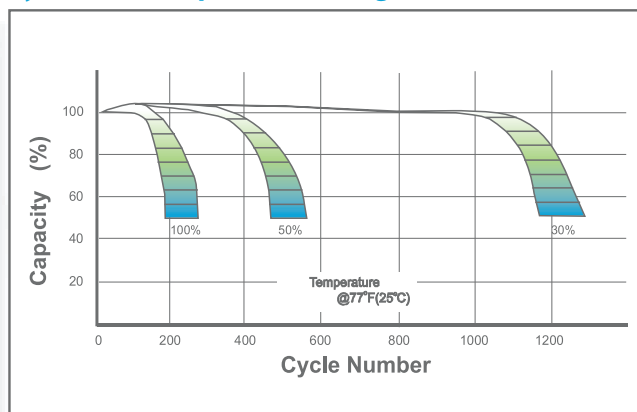
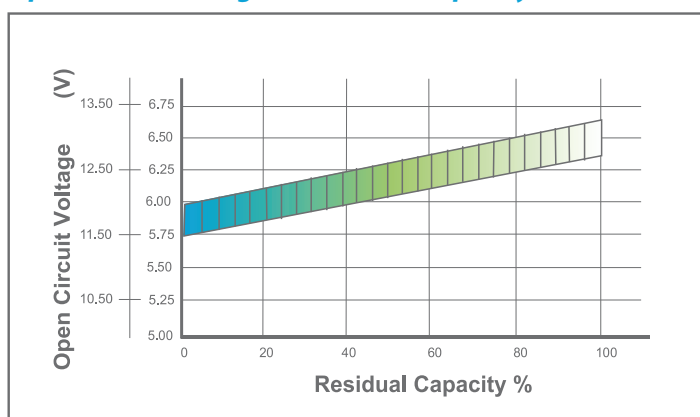
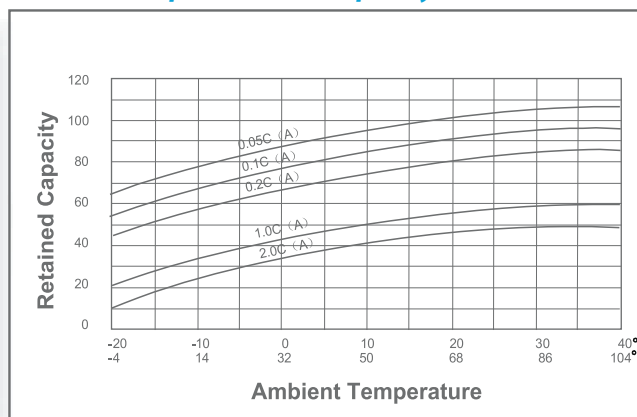
L: 22.6 in (560 mm)
W: 4.92 in (125 mm)
H: 12.4 in (316 mm)
TH: 12.4 in (316 mm)
 Tolerances are +/- 0.04 in. (+/- 1mm)
 and +/- 0.08 in. (+/- 2mm) for height
 dimensions. All data subject to
 change without notice.

Terminals (mm)
 Internal Thread

Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	749.7	547.1	385.0	234.5	121.6	72.4	52.1	40.5	33.6	23.5	21.4	11.6
10.2V	660.0	497.9	344.5	220.9	114.3	67.7	50.7	39.7	32.7	23.2	20.8	11.3
10.5V	636.8	474.7	327.1	214.2	110.0	66.0	49.5	38.8	32.4	22.9	20.3	11.0
10.8V	610.8	448.7	304.0	208.4	107.1	64.5	48.3	38.2	31.5	22.3	20.3	11.0
11.1V	587.6	425.5	283.7	202.6	104.2	62.8	46.6	37.0	30.7	21.7	19.4	10.4

Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	8194	5980	4207	2548	1448	846	620	483	399	280	253	137
10.2V	7646	5694	3936	2524	1362	807	605	471	390	274	247	133
10.5V	7428	5533	3784	2638	1320	787	590	465	387	274	244	132
10.8V	7333	5390	3641	2500	1281	772	578	453	378	268	241	131
11.1V	7199	5211	3474	2482	1266	769	572	453	378	265	235	127

Discharge Time vs. Discharge Current**Discharge Characteristics****Shelf Life & Storage****Cycle Life vs Depth of Discharge****Open Circuit Voltage vs Residual Capacity****Effect of Temperature on Capacity****Charge Current & Final Discharge Voltage**

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.43~2.47	0.30C
Standby	25°C(77°F)	2.28	2.27~2.30	

Final Discharge Voltage V/Cell	1.75	1.70	1.60	1.30
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C