

## Type

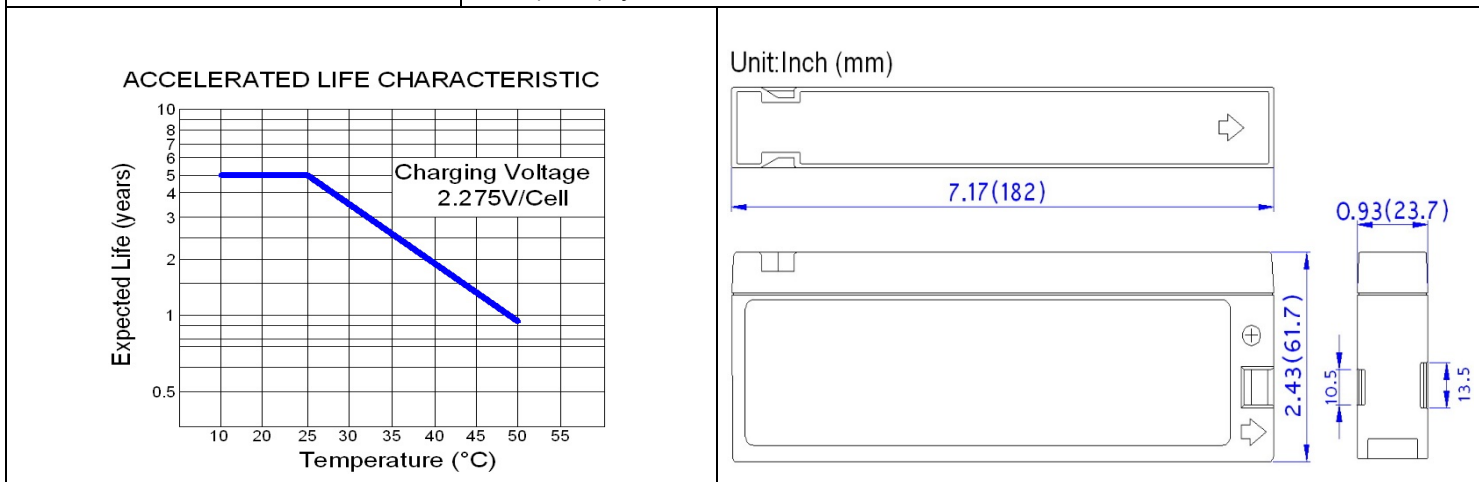
Rated Voltage	12V	
Rated Capacity	2.3AH/20HR	
Dimension	Length	182±1mm(7.17in)
	Width	23.7±1mm(0.93in)
	Height	61.7±1mm(2.43in)
	Total Height	61.7±1mm(2.43in)
Weight	0.725kg(1.595Pounds)	
Container Material	ABS,UL 94V-0 Resist acid, resist oil, resist vibration	Index of oxygen L.O.I>28%
Type of electrolyte	AGM Non-spillable	



## Performance

Capacity 25°C(77°F)	20HR of 115mA to 9.60V	2.300AH		
	5HR of 365mA to 9.60V	1.825AH		
	1HR of 1435mA to 9.60V	1.435AH		
	0.5HR of 2440mA to 9.60V	1.220AH		
Internal Resistance	Full Charge -15°C(5°F)	Approx.140±10mΩ	Full Charge 20°C(68°F)	Approx.100±10mΩ
	Full Charge -5°C(23°F)	Approx.120±10mΩ	Full Charge 25°C(77°F)	Approx.95±10mΩ
	Full Charge 0°C(32°F)	Approx.115±10mΩ	Full Charge 35°C(95°F)	Approx.90±10mΩ
	Full Charge 5°C(41°F)	Approx.110±10mΩ	Full Charge 45°C(113°F)	Approx.85±10mΩ
	Full Charge 15°C(59°F)	Approx.105±10mΩ		
The capacity will be effected by temperature	40°C(104°F)	105%(20HR to 2.41AH)		
	25°C(77°F)	100%(20HR to 2.30AH)		
	0°C(32°F)	85%(20HR to 1.95AH)		
	-20°C(-4°F)	60%(20HR to 1.38AH)		
Self-discharge 25°C(77°F)	1 months, 97% left	6 months, 85% left		
	3 months, 91% left	12 months, 64% left		
Max Discharge Current	23.0A(10CA)			
Max Short Duration Discharge Current	34.5A(15CA)			

Float Charging	Voltage	13.65±0.15V 25°C(77°F)	
	Current	0.69A(0.3CA)	
Cyclic Charging	6 to 15 hours	Voltage	14.85±0.15V 25°C(77°F)
		Current	0.69A(0.3CA)
Operation Temperature Range	Charge:-10~40°C(14~104°F) , Discharge:-20~50°C(-4~122°F)		
Expected Life	25°C(77°F)5years		

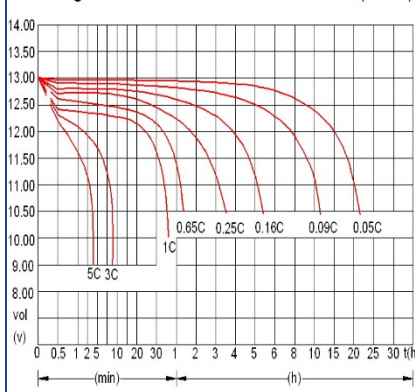


# FB1223 PERFORMANCE

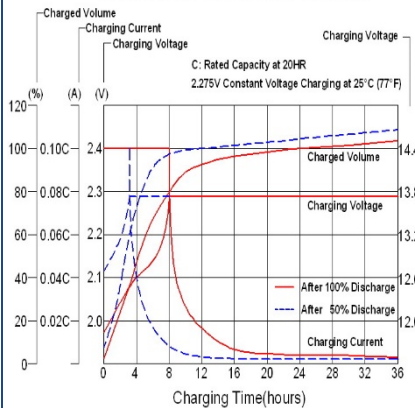
Amperes and watts per battery at 25°C (77°F)

F.V.	Time	Minutes										Hours							
	Item	1	5	10	15	20	25	30	35	40	45	1	2	3	4	5	8	10	20
1.60 (9.60)	A	9.760	6.190	4.570	3.710	3.260	2.725	2.440	2.215	2.050	1.865	1.435	0.820	0.575	0.450	0.365	0.238	0.207	0.115
	W	102.5	65.01	48.00	40.82	35.85	31.35	28.05	25.46	23.58	21.45	16.50	9.59	6.72	5.28	4.38	2.86	2.51	1.38
1.65 (9.90)	A	8.590	5.680	4.220	3.485	3.035	2.585	2.295	2.090	1.925	1.760	1.405	0.810	0.565	0.440	0.360	0.233	0.200	0.113
	W	90.19	59.62	44.34	38.34	33.37	29.70	26.40	24.05	22.16	20.27	16.03	9.47	6.64	5.16	4.33	2.80	2.46	1.35
1.70 (10.20)	A	7.790	5.455	3.915	3.280	2.850	2.460	2.215	2.010	1.825	1.720	1.390	0.790	0.555	0.425	0.350	0.228	0.193	0.107
	W	81.80	57.26	41.11	36.08	31.34	28.29	25.46	23.10	20.98	19.80	15.56	9.23	6.48	4.98	4.23	2.74	2.31	1.28
1.75 (10.50)	A	6.830	5.165	3.590	3.055	2.705	2.355	2.155	1.930	1.765	1.640	1.380	0.750	0.520	0.405	0.330	0.223	0.185	0.103
	W	71.68	54.24	37.67	33.60	29.77	27.11	24.75	22.16	20.27	18.86	15.32	8.75	6.08	4.74	3.99	2.68	2.21	1.23
1.80 (10.80)	A	6.050	4.675	3.260	2.790	2.480	2.235	2.005	1.845	1.680	1.600	1.320	0.720	0.510	0.395	0.325	0.215	0.180	0.100
	W	63.50	49.08	34.22	30.67	27.29	25.70	23.10	21.22	19.33	18.39	14.85	8.39	6.00	4.62	3.89	2.58	2.16	1.21
1.83 (10.98)	A	5.640	4.305	2.585	2.400	2.070	1.905	1.785	1.600	1.435	1.375	1.230	0.710	0.485	0.375	0.305	0.210	0.168	0.094
	W	59.19	45.20	27.12	26.38	22.78	21.92	20.50	18.39	16.50	15.80	14.15	8.27	5.68	4.38	3.64	2.52	2.02	1.13

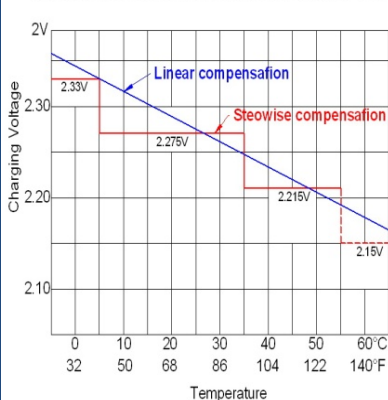
Discharge characteristic at different rates(25°C)



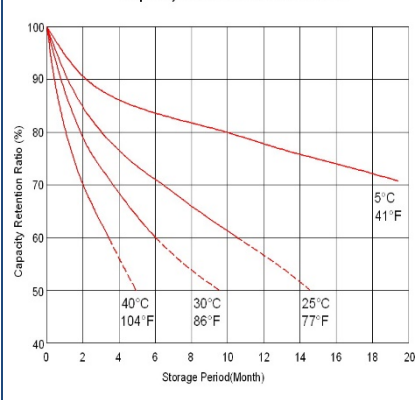
CHARGING CHARACTERISTICS



Relationship Between Temperature and Charging Voltage



Capacity Retention Characteristic



## Application:

- ☆ Broadcast television systems
- ☆ Telecom and UPS systems
- ☆ Communication back-up systems
- ☆ Solar storage power systems
- ☆ Power systems
- ☆ Forklift, elevator systems
- ☆ Emergency lighting
- ☆ Fire and security systems
- ☆ Camcorders

## Stabilities:

- ☆ Positive, negative's plates are all Calcium-Lead alloy.
- ☆ The plastic material is fire-resistance ABS or same grade of UL 94V-0 L.O.I >28%

## Polarities:

- ☆ The polarities adopted Antimony-Lead alloy or copper alloy covered with Lead material.

## Seal construction:

- ☆ Non-spillable, no leaking danger, the gas escape rate is low, no need to replenish water, can avoid acid lack or crystallization problem during discharge, the recombination rate is high than 98%