

BAT-12SB2.3P

Lead acid battery 12V 2.3AH



12SB2.3P 12Volt 2.3Ah

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

20 hour rate	(0.115A to 10.50V)	2.3Ah
10 hour rate	(0.219A to 10.50V)	2.185Ah
5 hour rate	(0.39A to 10.20V)	1.955Ah
1 C	(2.3A to 9.60V)	1.303Ah
3 C	(6.9A to 9.60V)	0.92Ah

Weight **Approx. 1.05kg(2.31Lbs.)**

Internal Resistance (at 1KHz) **Approx. 37 mΩ**

Maximum Discharge Current for

5 seconds: **34.5A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mv/ /cell

Maximum Charging Current : **0.69A**

Standby use:

Float Charging Voltage **13.50 to 13.80V**

Coefficient -3.0mv/ /cell

Operating Temperature Range

Charge **-15 (5) to 40 (104)**

Discharge **-15 (5) to 50 (122)**

Storage **-15 (5) to 40 (104)**

Charge Retention (shelf life) at 20 (68)

1 month **92%**

3 month **90%**

6 month **80%**

Case Material **ABS**

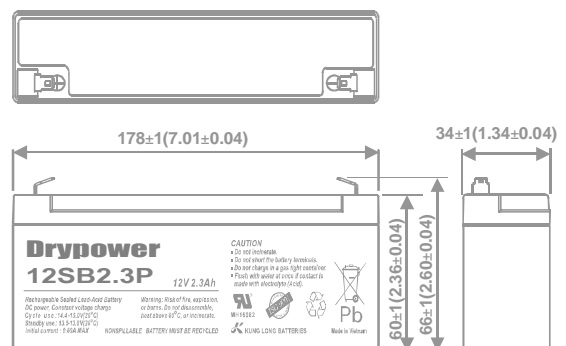
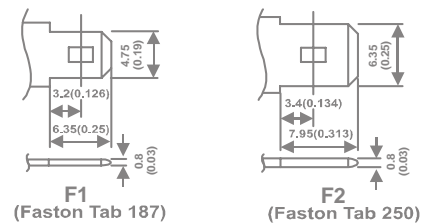
(Option: UL94 HB & UL94 V-0 flame retardant)

Terminal **F1 or F2 (Faston Tab 187 or 250)**

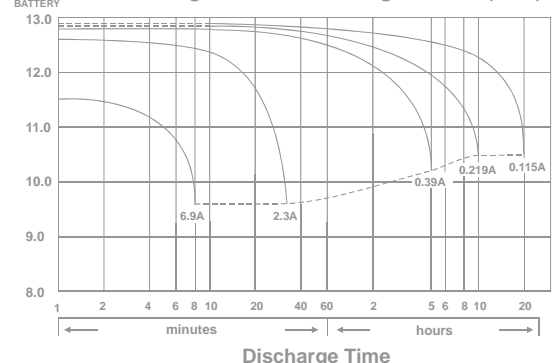


Dimensions

mm(inch)



(v) FOR 12V BATTERY Discharge Time VS. Discharge Current (25)

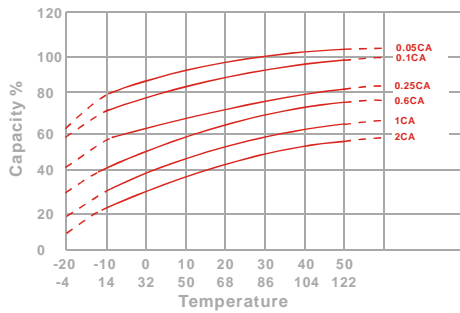


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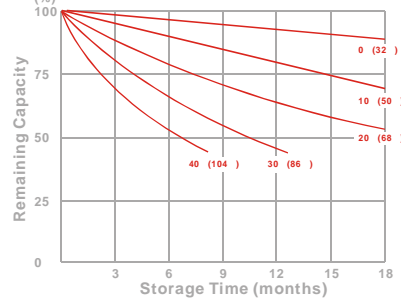
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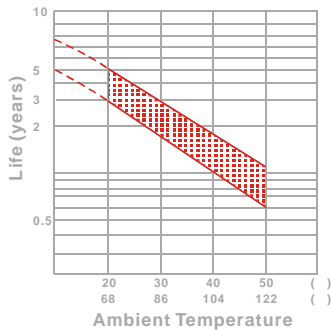
Effect of Temperature on Capacity 25 (77)



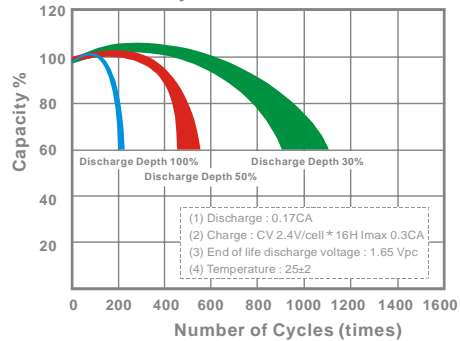
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25 (77)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	70.8	83.1	91.7	98.1	100	103	107
10	min	46.9	56.3	60.5	63.7	64.9	66.3	68.5
15	min	41.2	47.4	49.7	51.2	51.8	52.5	53.4
30	min	23.7	25.5	26.6	27.5	27.8	28.2	28.7
60	min	13.6	14.7	15.6	16.3	16.5	16.8	17.1
120	min	8.18	9.02	9.37	9.72	9.85	10.0	10.2
180	min	6.47	7.24	7.45	7.60	7.66	7.73	7.82
240	min	5.18	5.76	5.93	6.06	6.11	6.17	6.25
300	min	4.21	4.66	4.85	5.02	5.09	5.15	5.21
600	min	2.49	2.72	2.81	2.88	2.90	2.93	2.96
1200	min	1.38	1.45	1.49	1.52	1.53	1.54	1.55

- Discharge Rates in Amperes to Various End Voltages at 25 (77)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	9.08	9.36	9.62	9.82	9.95	10.1	10.4
10	min	4.76	5.45	5.68	5.87	5.94	6.03	6.15
15	min	3.89	4.15	4.27	4.38	4.42	4.47	4.53
30	min	2.02	2.17	2.24	2.30	2.32	2.35	2.39
60	min	1.23	1.34	1.39	1.42	1.43	1.45	1.47
120	min	0.668	0.731	0.765	0.796	0.809	0.826	0.849
180	min	0.508	0.562	0.587	0.609	0.618	0.628	0.643
240	min	0.411	0.449	0.472	0.491	0.497	0.505	0.513
300	min	0.364	0.383	0.396	0.405	0.409	0.414	0.419
600	min	0.217	0.226	0.232	0.237	0.238	0.240	0.242
1200	min	0.114	0.118	0.121	0.123	0.124	0.125	0.126

All data on the spec. sheet is an average value:

The tolerance range : X<6min(+15%~-15%), 6min X<10min(+12%~-12%),10min X < 60min(+8%~-8%), X 60min(+5%~-5%)