

12SB14C 12Volt 14Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

20 hour rate	(0.7A to 10.50V)	14Ah
10 hour rate	(1.33A to 10.50V)	13.3Ah
5 hour rate	(2.38A to 10.20V)	11.9Ah
1 C	(14A to 9.60V)	8.87Ah
3 C	(42A to 9.60V)	5.6Ah

Weight Approx. 4.28kg(9.42Lbs.)

Internal Resistance (at 1KHz) Approx. 9 mΩ

Maximum Discharge Current for 5 seconds: 210A

Charging Methods at 25 (77)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mv/ /cell

Maximum Charging Current : 4.2A

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

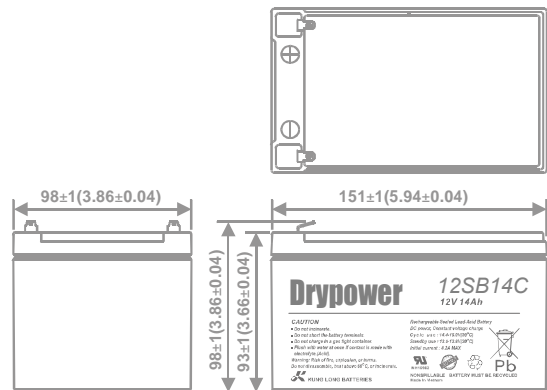
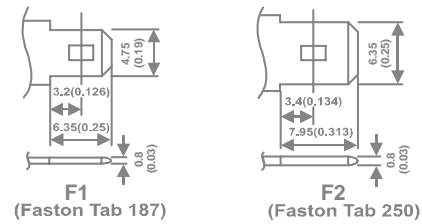
(Option: UL94 HB & UL94 V-0 flame retardant)

Terminal F1 or F2 (Faston Tab 187 or 250)

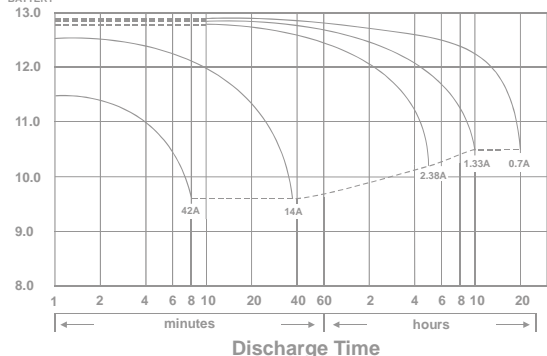


Dimensions

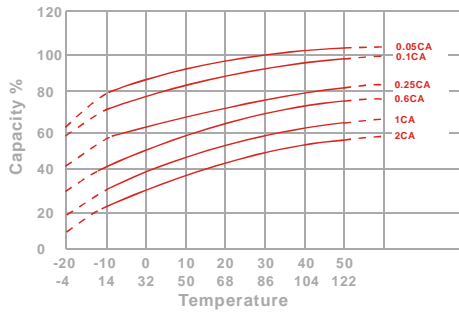
mm(inch)



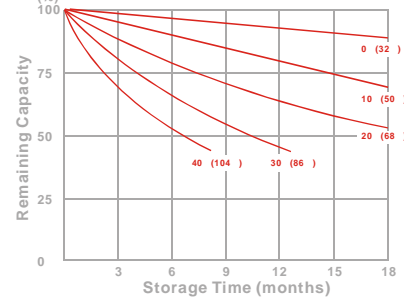
(v) Discharge Time VS. Discharge Current (25)
FOR 12V BATTERY



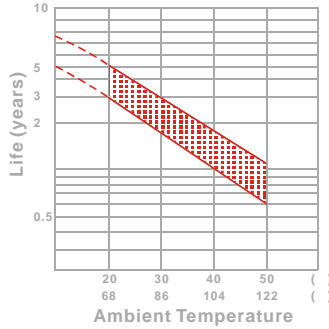
Effect of Temperature on Capacity 25 (77)



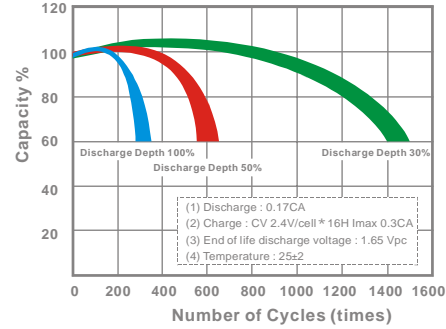
Capacity Retention Characteristic



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	454	495	526	558	576	602	619
10	min	335	354	375	397	406	414	427
15	min	248	263	271	283	286	298	302
30	min	154	159	162	167	169	172	178
60	min	99.0	102	104	106	107	108	110
120	min	54.0	56.1	57.4	58.7	59.3	59.8	61.2
180	min	40.5	41.2	41.8	42.4	42.5	42.9	43.2
240	min	33.8	34.5	35.3	35.7	35.9	36.1	36.4
300	min	29.8	30.2	30.5	30.8	30.9	31.1	31.3
600	min	16.6	17.0	17.2	17.4	17.5	17.6	17.9
1200	min	8.26	8.37	8.49	8.58	8.61	8.63	8.67

- 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	40.3	45.7	49.7	53.8	56.2	58.7	61.0
10	min	28.8	31.0	33.1	35.2	36.1	37.2	38.1
15	min	21.5	23.0	24.1	25.4	25.9	26.8	27.2
30	min	13.2	13.8	14.2	14.7	15.1	15.4	15.8
60	min	8.97	9.25	9.48	9.69	9.83	9.92	10.0
120	min	4.92	5.13	5.24	5.36	5.39	5.45	5.67
180	min	3.15	3.22	3.29	3.35	3.37	3.41	3.47
240	min	2.63	2.68	2.75	2.81	2.83	2.87	2.92
300	min	2.32	2.37	2.40	2.43	2.44	2.46	2.48
600	min	1.29	1.34	1.40	1.42	1.43	1.44	1.45
1200	min	0.677	0.705	0.718	0.723	0.725	0.728	0.730

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%)