

12SB14C (12V 14Ah)

SPECIFICATIONS

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate (0.70A to 10.50V)	14Ah
10 hour rate (1.33A to 10.50V)	13.3Ah
5 hour rate (2.38A to 10.20V)	11.9Ah
1C (14A to 9.60V)	8.87Ah
3C (42A to 9.60V)	5.6Ah

Weight Approx. 4.28kg (9.42lbs)

Internal Resistance (@1kHz) Approx. 9mΩ

Maximum Discharge Current

For 5 seconds 210A

Charging Methods @25°C (77°F)

Cycle Use:

Charging Voltage	14.4V to 15.0V
Coefficient -5.0mV/°C/Cell	
Maximum Charging Current	4.2A

Standby Use:

Float Charging Voltage	13.50V to 13.80V
Coefficient -3.0mV/°C/Cell	

Operating Temperature Range

Charge	-15°C (5°F) to +40°C (104°F)
Discharge	-15°C (5°F) to +50°C (122°F)
Storage	-15°C (5°F) to +40°C (104°F)

Charge Retention (Shelf Life) @20°C (68°F)

1 month	92%
3 months	90%
6 months	80%

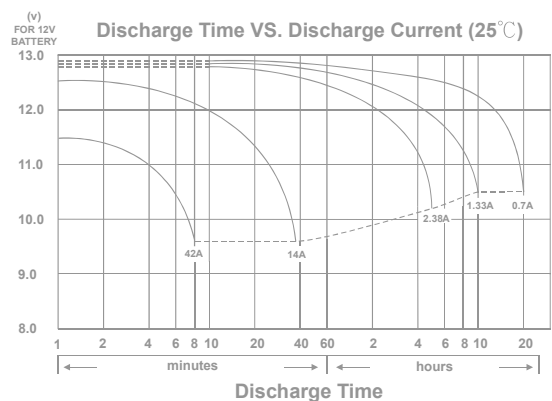
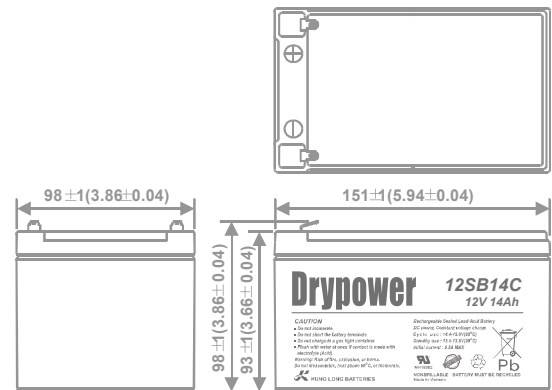
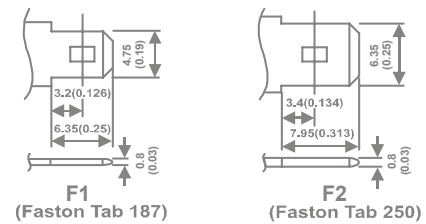
Case Material ABS

Terminal F1 or F2 (Faston Tab 187 or 250)

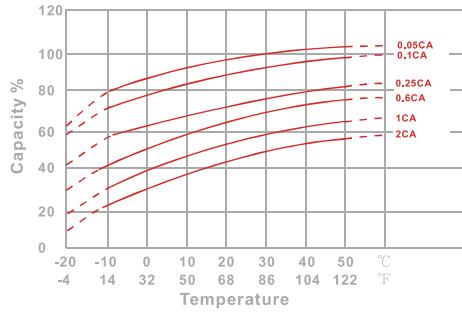


DIMENSIONS

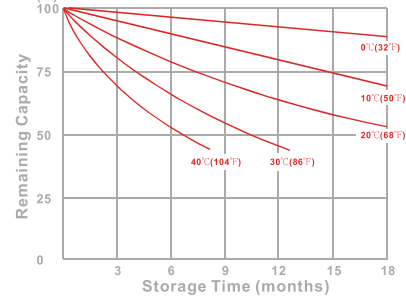
mm (inch)



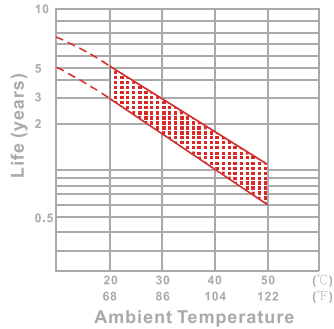
Effect of Temperature on Capacity 25°C(77°F)



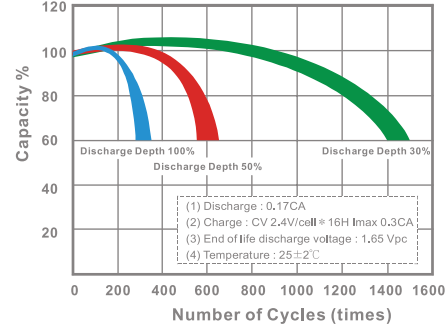
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
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°C(77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
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 : $X < 6\text{min}$ (+15%~-15%), $6\text{min} \leq X < 10\text{min}$ (+12%~-12%), $10\text{min} \leq X < 60\text{min}$ (+8%~-8%), $X \geq 60\text{min}$ (+5%~-5%)

Performance may vary depending on application. All specifications are correct at time of creation. All specifications and operation conditions contained in this datasheet are subject to change or improvement without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.