

12SB10C (12V 10Ah)

SPECIFICATIONS

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate (0.5A to 10.50V)	10Ah
10 hour rate (0.95A to 10.50V)	9.5Ah
5 hour rate (1.7A to 10.20V)	8.5Ah
1C (10A to 9.60V)	6.33Ah
3C (30A to 9.60V)	4Ah

Weight Approx. 3.3kg (7.26lbs)

Internal Resistance (@1kHz) Approx. 12mΩ

Maximum Discharge Current

For 5 seconds 150A

Charging Methods @25°C (77°F)

Cycle Use:

Charging Voltage	14.4V to 15.0V
Coefficient -5.0mV/°C/Cell	
Maximum Charging Current	3.0A

Standby Use:

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

Operating Temperature Range

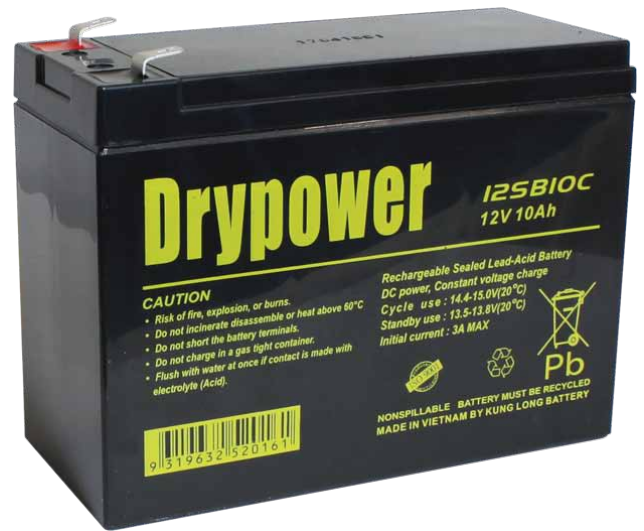
Charge	-15°C (5°F) to +40°C (104°F)
Discharge	-15°C (5°F) to +50°C (122°F)
Storage	-15°C (5°F) to +40°C (104°F)

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

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

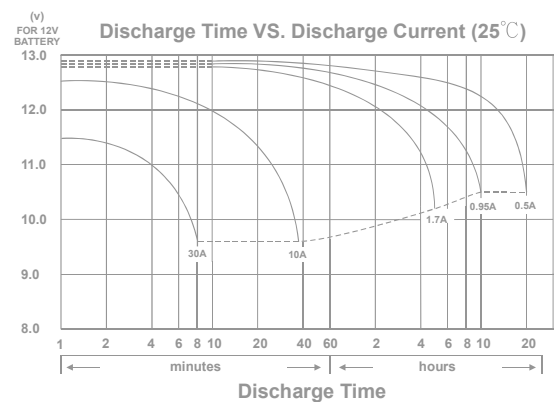
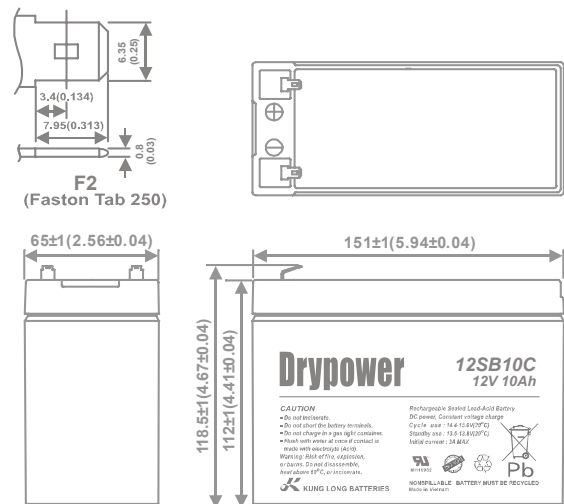
Case Material ABS

Terminal F2 (Faston Tab 250)

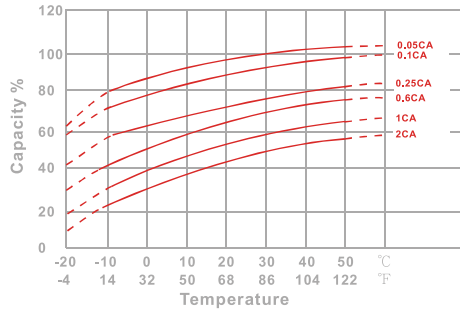


DIMENSIONS

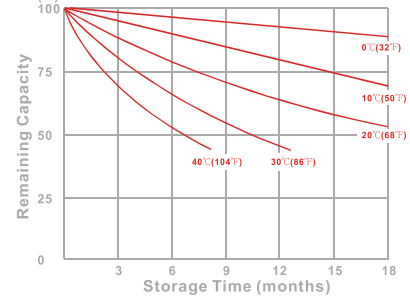
mm (inch)



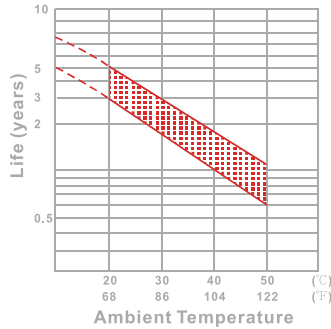
Effect of Temperature on Capacity 25°C(77°F)



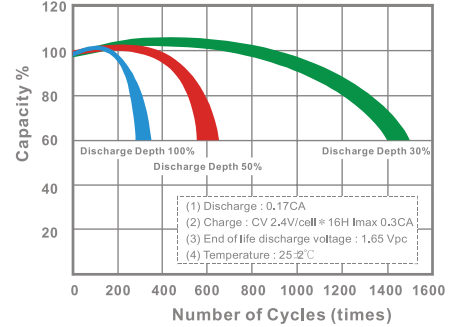
Capacity Retention Characteristic



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	298	343	361	376	382	388	395
10	min	226	247	258	266	269	273	278
15	min	175	188	196	202	205	208	211
30	min	110	115	118	120	122	123	124
60	min	62.6	67.3	69.8	71.2	71.8	72.5	73.3
120	min	35.3	38.6	40.3	41.5	42.0	42.6	43.2
180	min	27.4	29.7	31.2	32.3	32.6	33.1	33.6
240	min	22.7	23.5	24.1	24.6	24.8	25.1	25.4
300	min	19.9	20.5	20.9	21.2	21.4	21.6	21.8
600	min	11.5	11.8	12.1	12.4	12.5	12.6	12.8
1200	min	6.36	6.55	6.68	6.87	6.92	6.96	7.03

- 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	24.6	29.3	32.7	34.1	34.9	35.6	36.1
10	min	21.4	24.1	25.6	26.7	27.1	27.6	28.3
15	min	15.6	17.2	18.4	19.1	19.5	19.9	20.4
30	min	10.7	11.3	11.8	12.2	12.4	12.6	12.8
60	min	5.69	6.03	6.26	6.45	6.58	6.63	6.69
120	min	3.24	3.39	3.48	3.56	3.59	3.62	3.67
180	min	2.55	2.63	2.68	2.72	2.74	2.76	2.79
240	min	1.96	2.01	2.05	2.08	2.09	2.11	2.12
300	min	1.69	1.72	1.74	1.76	1.77	1.78	1.79
600	min	0.974	1.00	1.02	1.04	1.05	1.06	1.07
1200	min	0.525	0.527	0.532	0.536	0.538	0.541	0.544

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.