

### 12SB2P (12V 2Ah)

#### SPECIFICATIONS

Nominal Voltage (V) 12V

#### Nominal Capacity

20 hour rate (0.10A to 10.50V)	2Ah
10 hour rate (0.19A to 10.50V)	1.9Ah
5 hour rate (0.34A to 10.20V)	1.7Ah
1C (2A to 9.60V)	1.13Ah
3C (6A to 9.60V)	0.8Ah

Weight Approx. 741g (1.63lbs)

Internal Resistance (@1kHz) Approx. 57mΩ

#### Maximum Discharge Current

For 5 seconds 30A

#### Charging Methods @25°C (77°F)

##### Cycle Use:

Charging Voltage 14.4V to 15.0V  
Coefficient -5.0mV/°C/Cell  
Maximum Charging Current 0.6A

##### 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%

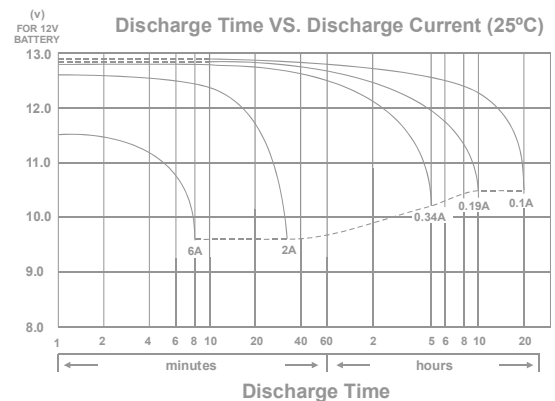
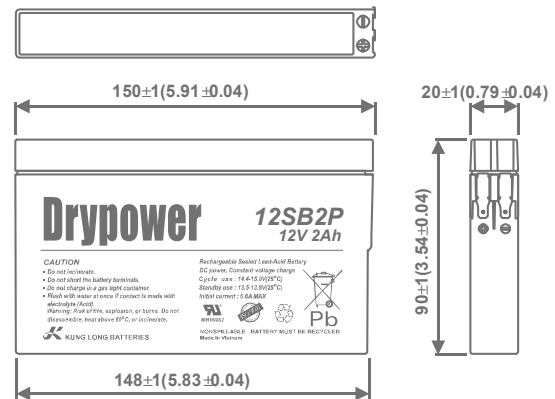
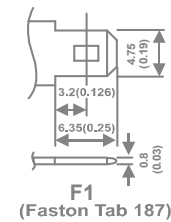
Case Material ABS

Terminal F1 (Faston Tab 187)

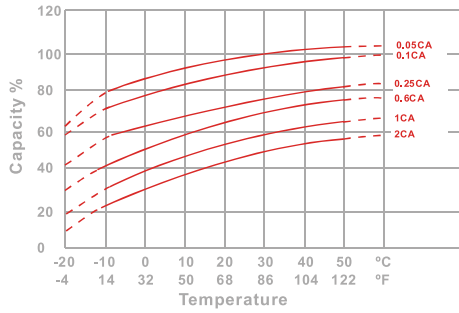


#### DIMENSIONS

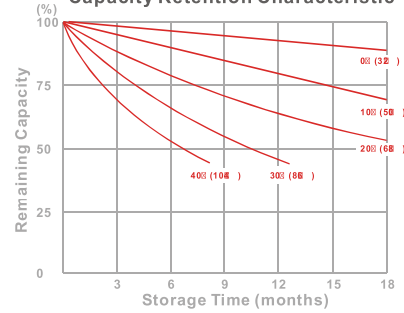
mm (inch)



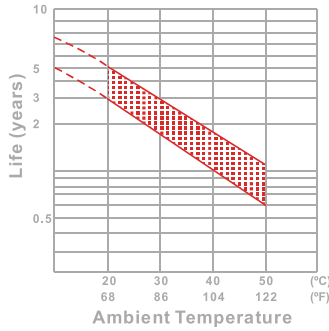
**Effect of Temperature on Capacity 25°C (77°F)**



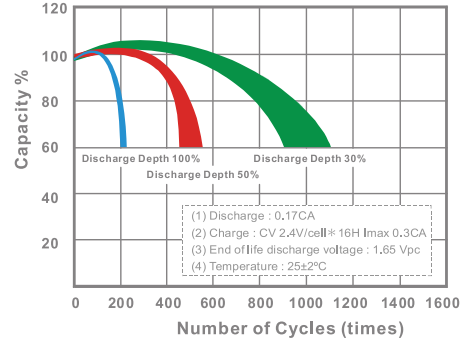
**Capacity Retention Characteristic**



**Trickle (or float) Service Life**



**Cycle Service Life**



**- PERFORMANCE DATA**

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	55.8	63.6	69.4	74.5	76.6	78.9	82.1
10	min	36.4	41.9	46.7	49.9	51.2	52.5	54.6
15	min	31.8	35.4	37.5	39.1	39.7	40.4	41.2
30	min	20.7	22.3	23.5	24.4	24.7	25.1	25.5
60	min	12.6	13.3	13.8	14.2	14.3	14.5	14.7
120	min	7.84	8.32	8.51	8.68	8.74	8.82	8.93
180	min	5.53	5.87	6.04	6.17	6.22	6.28	6.35
240	min	4.32	4.57	4.73	4.86	4.91	4.96	5.02
300	min	3.69	3.88	4.01	4.11	4.15	4.19	4.24
600	min	2.14	2.25	2.34	2.40	2.42	2.45	2.48
1200	min	1.12	1.18	1.22	1.25	1.26	1.27	1.28

**- Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)**

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	5.08	5.84	6.48	7.12	7.36	7.68	8.12
10	min	3.41	4.01	4.33	4.62	4.73	4.86	5.07
15	min	2.59	3.01	3.25	3.44	3.51	3.59	3.68
30	min	1.67	1.86	2.02	2.15	2.21	2.26	2.32
60	min	1.09	1.16	1.20	1.23	1.24	1.25	1.26
120	min	0.667	0.709	0.721	0.730	0.733	0.737	0.742
180	min	0.458	0.487	0.500	0.509	0.512	0.516	0.521
240	min	0.365	0.381	0.392	0.401	0.404	0.408	0.412
300	min	0.316	0.326	0.334	0.340	0.342	0.345	0.348
600	min	0.183	0.189	0.194	0.198	0.200	0.201	0.203
1200	min	0.096	0.099	0.101	0.102	0.102	0.103	0.104

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%)

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.