

### 6SB12P (6V 12Ah)

#### SPECIFICATIONS

Nominal Voltage (V) 6V

#### Nominal Capacity

20 hour rate	(0.60A to 5.25V)	12Ah
10 hour rate	(1.14A to 5.25V)	11.4Ah
5 hour rate	(2.04A to 5.10V)	10.2Ah
1C	(12A to 4.8V)	6.8Ah
3C	(36A to 4.8V)	4.8Ah

Weight Approx. 1.9kg (4.18lbs)

Internal Resistance (@1kHz) Approx. 10mΩ

#### Maximum Discharge Current

For 5 seconds 180A

#### Charging Methods @25°C (77°F)

##### Cycle Use:

Charging Voltage	7.20V to 7.50V
Coefficient	-5.0mV/°C/Cell
Maximum Charging Current	3.6A

##### Standby Use:

Float Charging Voltage	6.75V to 6.90V
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%

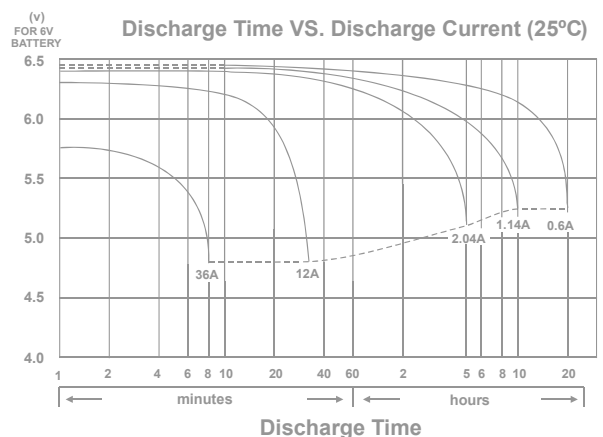
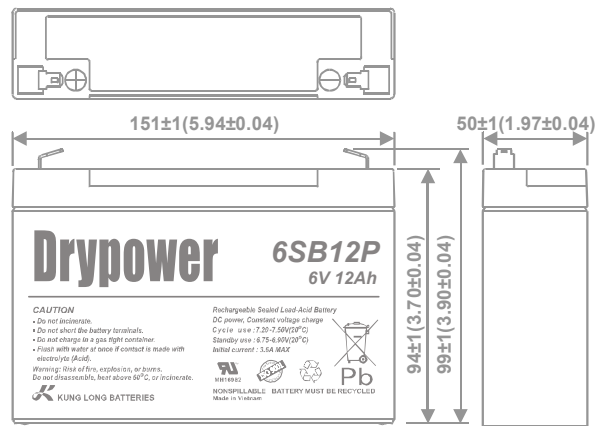
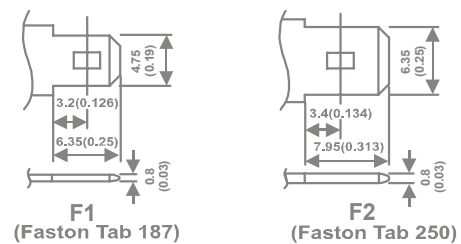
Case Material ABS

Terminal F1 or F2 (Faston Tab 187 or 250)

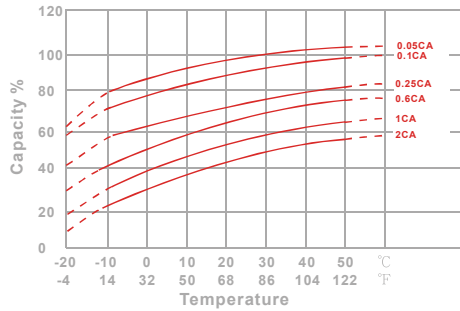


#### DIMENSIONS

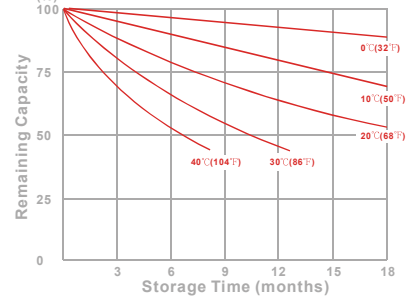
mm (inch)



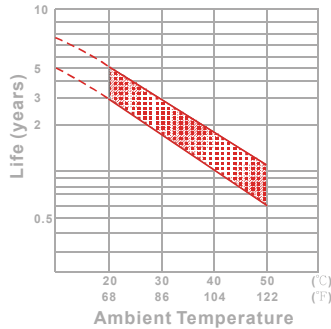
Effect of Temperature on Capacity 25°C (77°F)



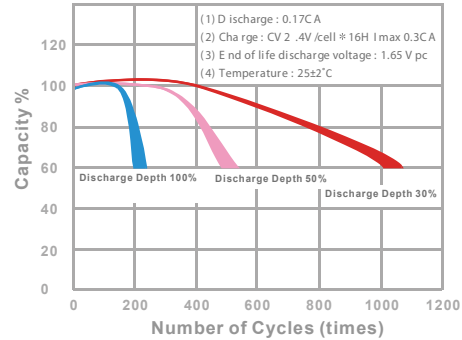
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



## - PERFORMANCE DATA

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	203	226	243	260	268	276	291
10	min	144	157	165	172	175	179	183
15	min	116	123	128	132	134	136	140
30	min	66.7	70.8	73.9	76.2	77.0	77.8	79.0
60	min	47.4	49.0	50.0	51.0	51.5	51.9	52.5
120	min	25.9	26.8	27.1	27.4	27.6	27.7	28.0
180	min	17.0	17.6	18.2	18.6	18.8	19.1	19.3
240	min	14.3	14.6	14.9	15.2	15.4	15.6	15.8
300	min	11.9	12.2	12.5	12.9	13.0	13.1	13.4
600	min	7.02	7.20	7.32	7.40	7.45	7.50	7.56
1200	min	3.58	3.62	3.74	3.79	3.84	3.88	3.97

### - 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
Time								
5	min	37.2	41.4	44.5	47.7	49.1	50.6	53.4
10	min	25.7	28.1	29.4	30.7	31.2	31.9	32.7
15	min	20.3	21.6	22.4	23.2	23.5	23.8	24.5
30	min	11.4	12.1	12.6	13.0	13.1	13.3	13.5
60	min	8.21	8.40	8.52	8.63	8.68	8.74	8.82
120	min	4.21	4.36	4.47	4.56	4.59	4.63	4.68
180	min	2.87	3.06	3.13	3.19	3.22	3.25	3.29
240	min	2.38	2.43	2.47	2.52	2.55	2.58	2.62
300	min	1.97	2.03	2.08	2.14	2.16	2.19	2.23
600	min	1.16	1.18	1.20	1.22	1.23	1.24	1.25
1200	min	0.592	0.599	0.618	0.627	0.634	0.642	0.656

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.