

### 12SB1.2P (12V 1.2Ah)

#### SPECIFICATIONS

Nominal Voltage (V) 12V

#### Nominal Capacity

20 hour rate (0.060A to 10.50V)	1.2Ah
10 hour rate (0.114A to 10.50V)	1.14Ah
5 hour rate (0.204A to 10.20V)	1.02Ah
1C (1.2A to 9.60V)	0.68Ah
3C (3.6A to 9.60V)	0.48Ah

Weight Approx. 575g (1.27lbs)

Internal Resistance (@1kHz) Approx. 75.4mΩ

#### Maximum Discharge Current

For 5 seconds 18A

#### Charging Methods @25°C (77°F)

##### Cycle Use:

Charging Voltage	14.4V to 15.0V
Coefficient -5.0mV/°C/Cell	
Maximum Charging Current	0.36A

##### Standby Use:

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

Design Life 12 years

#### Operating Temperature Range

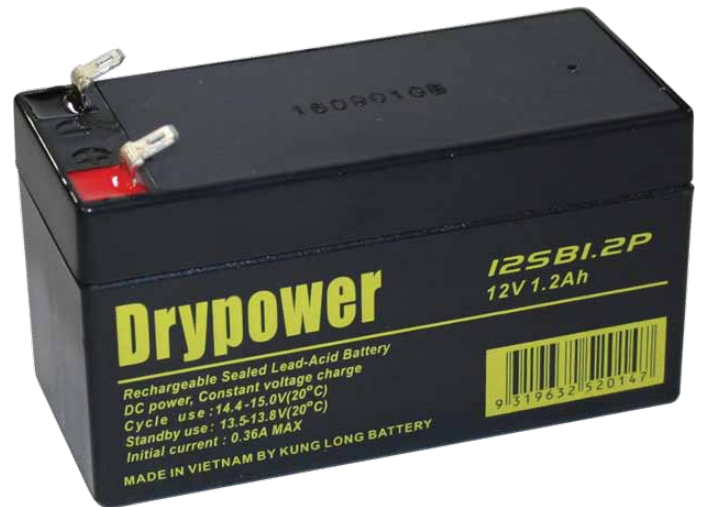
Charge	-15°C (5°F)	to	+40°C (104°F)
Discharge	-15°C (5°F)	to	+50°C (122°F)
Storage	-15°C (5°F)	to	+40°C (104°F)

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

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

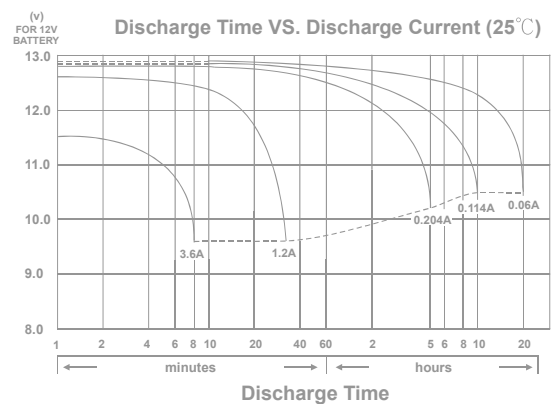
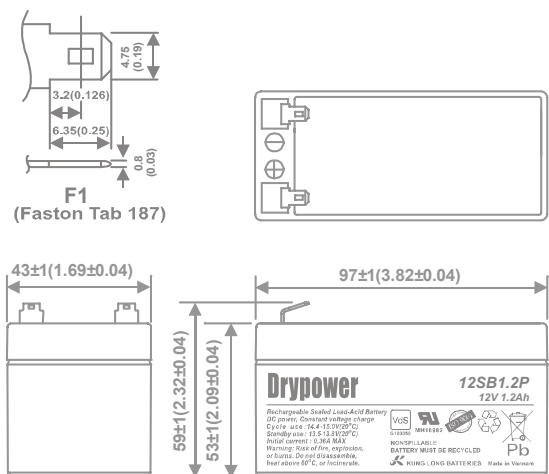
Case Material ABS

Terminal F1 (Faston Tab 187)

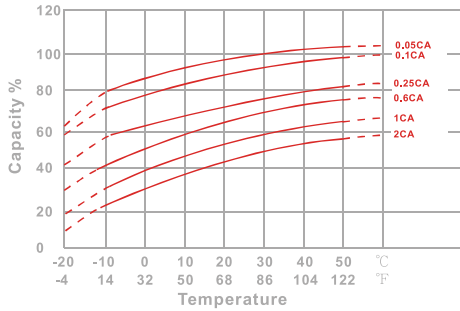


#### DIMENSIONS

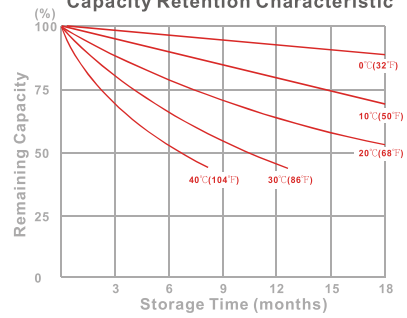
mm (inch)



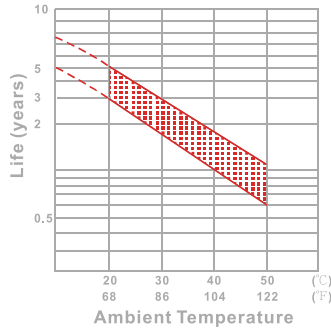
Effect of Temperature on Capacity 25°C(77°F)



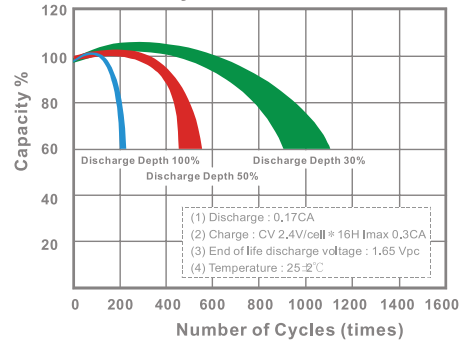
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



### - PERFORMANCE DATA

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

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	43.1	46.9	49.6	51.9	52.8	53.9	55.7
10	min	27.7	30.0	31.8	33.1	33.5	34.0	34.6
15	min	21.9	23.2	24.3	25.2	25.5	25.9	26.3
30	min	12.9	13.5	13.9	14.2	14.3	14.5	14.7
60	min	7.91	8.35	8.59	8.80	8.88	8.98	9.10
120	min	4.48	4.85	5.08	5.25	5.32	5.40	5.49
180	min	3.20	3.44	3.61	3.74	3.80	3.87	3.94
240	min	2.61	2.82	2.97	3.08	3.12	3.17	3.22
300	min	2.52	2.65	2.74	2.81	2.83	2.86	2.89
600	min	1.32	1.40	1.46	1.50	1.51	1.53	1.55
1200	min	0.738	0.757	0.771	0.780	0.783	0.787	0.792

- 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	3.49	4.11	4.57	4.94	5.09	5.26	5.51
10	min	2.12	2.43	2.63	2.81	2.88	2.96	3.11
15	min	1.71	1.95	2.09	2.20	2.24	2.29	2.35
30	min	0.931	1.06	1.17	1.24	1.26	1.29	1.32
60	min	0.680	0.716	0.735	0.759	0.765	0.772	0.779
120	min	0.392	0.415	0.429	0.440	0.444	0.449	0.456
180	min	0.272	0.291	0.302	0.311	0.314	0.318	0.324
240	min	0.223	0.238	0.247	0.254	0.257	0.260	0.264
300	min	0.207	0.219	0.226	0.231	0.233	0.236	0.238
600	min	0.112	0.117	0.121	0.124	0.125	0.126	0.127
1200	min	0.0615	0.0624	0.0631	0.0637	0.0639	0.0642	0.0646

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.