

6SB1.2P 6Volt 1.2Ah

Specifications

Nominal Voltage(V) **6V**

Nominal Capacity

| | | |
|--------------|-------------------|--------|
| 20 hour rate | (0.06A to 5.25V) | 1.2Ah |
| 10 hour rate | (0.114A to 5.25V) | 1.14Ah |
| 5 hour rate | (0.204A to 5.1V) | 1.02Ah |
| 1 C | (1.2A to 4.8V) | 0.68Ah |
| 3 C | (3.6A to 4.8V) | 0.48Ah |

Weight **Approx. 310g(0.68Lbs.)**

Internal Resistance (at 1KHz) **Approx. 41 mΩ**

Maximum Discharge Current for

5 seconds: **18A**

Charging Methods at 25°C(77°F)

Cycle use:

Charging Voltage **7.20 to 7.50V**

Coefficient **-5.0mv/°C/cell**

Maximum Charging Current : **0.36A**

Standby use:

Float Charging Voltage **6.75 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) at 20°C(68°F)

1 month **92%**

3 month **90%**

6 month **80%**

Case Material **ABS**

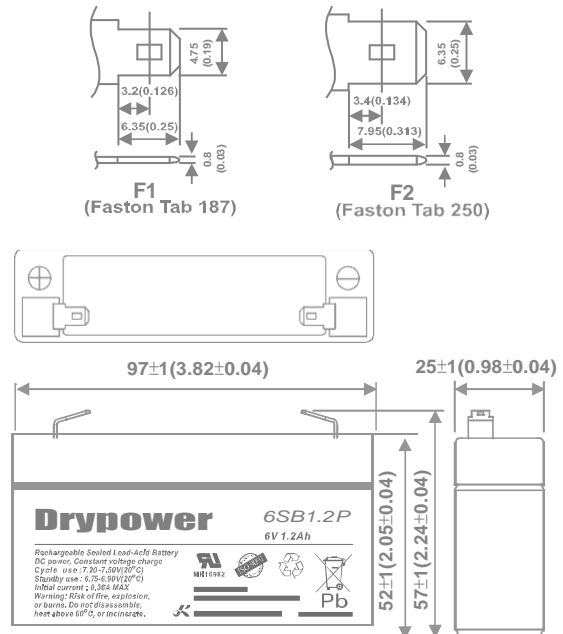
(Option: UL94 HB & UL94 V-0 flame retardant)

Terminal **F1 or F2 (Faston Tab 187 or 250)**

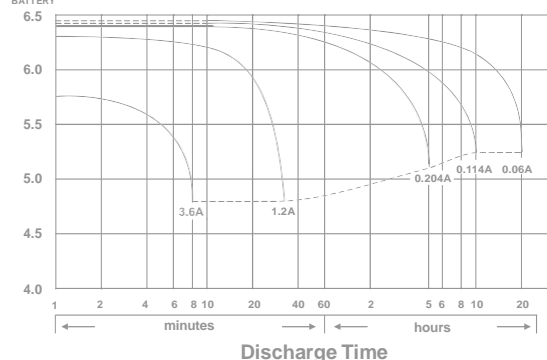


Dimensions

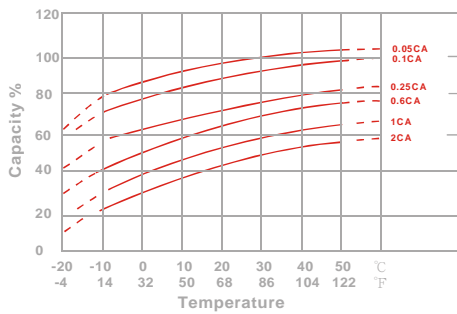
mm(inch)



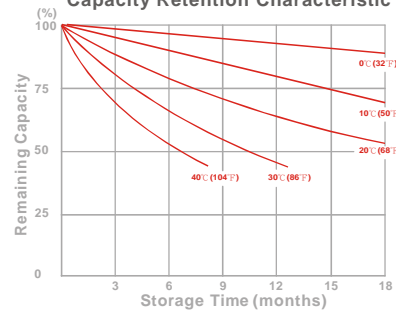
(V) FOR 6V BATTERY Discharge Time VS. Discharge Current (25°C)



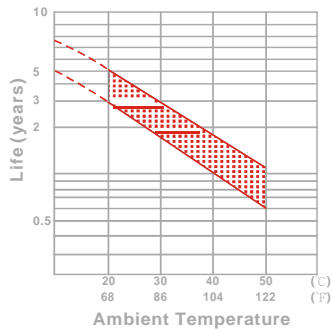
Effect of Temperature on Capacity 25°C (77°F)



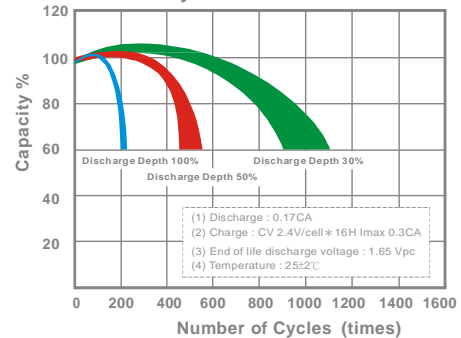
Capacity Retention Characteristic



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 | 21.6 | 23.5 | 24.8 | 26.0 | 26.4 | 27.0 | 27.9 |
| 10 | min | 13.9 | 15.0 | 15.9 | 16.6 | 16.8 | 17.0 | 17.3 |
| 15 | min | 11.0 | 11.6 | 12.2 | 12.6 | 12.8 | 13.0 | 13.2 |
| 30 | min | 6.45 | 6.75 | 6.95 | 7.10 | 7.15 | 7.25 | 7.35 |
| 60 | min | 3.96 | 4.18 | 4.30 | 4.40 | 4.44 | 4.49 | 4.55 |
| 120 | min | 2.24 | 2.43 | 2.54 | 2.63 | 2.66 | 2.70 | 2.75 |
| 180 | min | 1.60 | 1.72 | 1.81 | 1.87 | 1.90 | 1.94 | 1.97 |
| 240 | min | 1.31 | 1.41 | 1.49 | 1.54 | 1.56 | 1.59 | 1.61 |
| 300 | min | 1.26 | 1.33 | 1.37 | 1.41 | 1.42 | 1.43 | 1.45 |
| 600 | min | 0.660 | 0.700 | 0.730 | 0.750 | 0.755 | 0.765 | 0.775 |
| 1200 | min | 0.369 | 0.379 | 0.386 | 0.390 | 0.392 | 0.394 | 0.396 |

- 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%)