

12SB7.2P 12Volt 7.2Ah

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

| | | |
|--------------|--------------------|---------------|
| 20 hour rate | (0.36A to 10.50V) | 7.2Ah |
| 10 hour rate | (0.684A to 10.50V) | 6.84Ah |
| 5 hour rate | (1.224A to 10.20V) | 6.12Ah |
| 1 C | (7.2A to 9.60V) | 4.08Ah |
| 3 C | (21.6A to 9.60V) | 2.88Ah |

Weight **Approx. 2.4kg(5.28Lbs.)**

Internal Resistance (at 1KHz) **Approx. 22 mΩ**

Maximum Discharge Current for

5 seconds: **108A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mv/ /cell

Maximum Charging Current : **2.16A**

Standby use:

Float Charging Voltage **13.50 to 13.80V**

Coefficient -3.0mv/ /cell

Operating Temperature Range

Charge **-15 (5) to 40 (104)**

Discharge **-15 (5) to 50 (122)**

Storage **-15 (5) to 40 (104)**

Charge Retention (shelf life) at 20 (68)

1 month **92%**

3 month **90%**

6 month **80%**

Case Material **ABS**

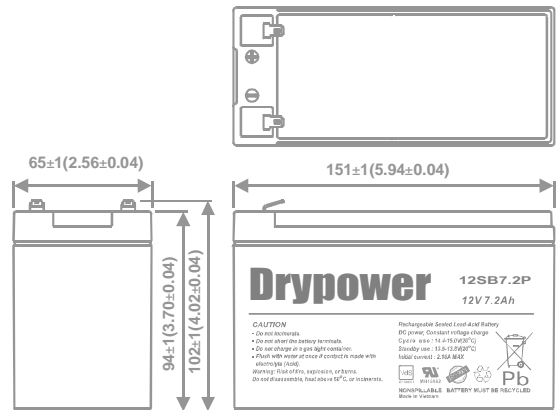
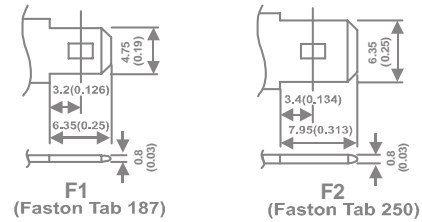
(Option: UL94 HB & UL94 V-0 flame retardant)

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

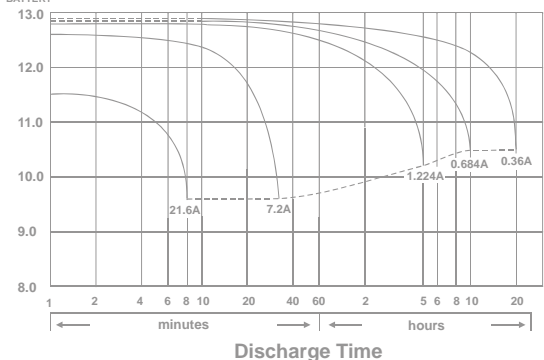


Dimensions

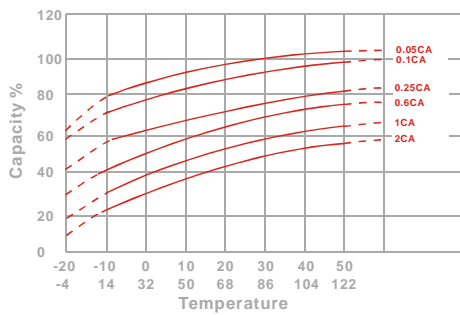
mm(inch)



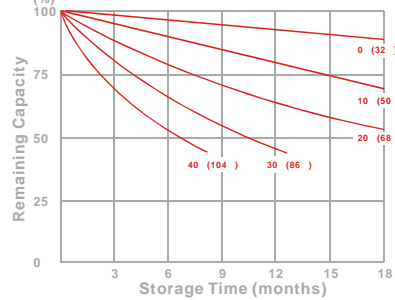
(v) FOR 12V BATTERY Discharge Time VS. Discharge Current (25)



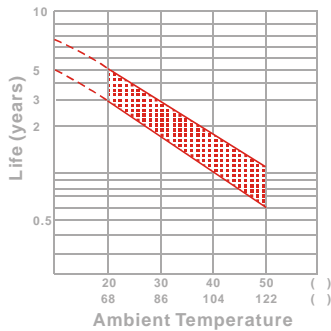
Effect of Temperature on Capacity 25 (77)



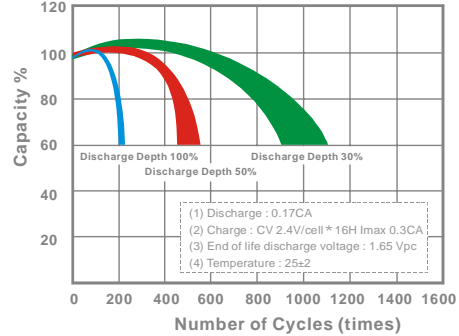
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

| End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Time | | | | | | | | |
| 5 | min | 257 | 288 | 302 | 315 | 321 | 326 | 335 |
| 10 | min | 179 | 188 | 196 | 204 | 209 | 212 | 218 |
| 15 | min | 146 | 153 | 157 | 161 | 162 | 165 | 169 |
| 30 | min | 78.2 | 82.1 | 84.7 | 86.8 | 87.6 | 88.4 | 89.6 |
| 60 | min | 50.6 | 52.4 | 53.8 | 54.9 | 55.3 | 55.8 | 56.7 |
| 120 | min | 25.3 | 26.3 | 27.8 | 31.3 | 31.6 | 31.9 | 32.4 |
| 180 | min | 19.6 | 20.7 | 21.6 | 22.4 | 22.6 | 22.9 | 23.2 |
| 240 | min | 17.2 | 18.0 | 18.6 | 18.9 | 19.0 | 19.2 | 19.4 |
| 300 | min | 14.8 | 15.3 | 15.8 | 16.1 | 16.2 | 16.3 | 16.4 |
| 600 | min | 8.17 | 8.35 | 8.49 | 8.61 | 8.65 | 8.70 | 8.76 |
| 1200 | min | 4.16 | 4.31 | 4.42 | 4.50 | 4.53 | 4.56 | 4.62 |

- Discharge Rates in Amperes to Various End Voltages at 25 (77)

| End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Time | | | | | | | | |
| 5 | min | 23.5 | 26.4 | 28.1 | 29.7 | 30.5 | 31.3 | 32.6 |
| 10 | min | 16.2 | 17.0 | 18.2 | 18.6 | 18.8 | 19.1 | 19.8 |
| 15 | min | 12.5 | 13.1 | 13.6 | 13.9 | 14.0 | 14.2 | 14.5 |
| 30 | min | 6.61 | 6.92 | 7.14 | 7.30 | 7.38 | 7.45 | 7.61 |
| 60 | min | 3.98 | 4.13 | 4.25 | 4.36 | 4.39 | 4.42 | 4.48 |
| 120 | min | 2.05 | 2.14 | 2.21 | 2.27 | 2.29 | 2.32 | 2.35 |
| 180 | min | 1.63 | 1.69 | 1.75 | 1.80 | 1.82 | 1.84 | 1.87 |
| 240 | min | 1.30 | 1.37 | 1.42 | 1.45 | 1.46 | 1.47 | 1.49 |
| 300 | min | 1.11 | 1.16 | 1.23 | 1.25 | 1.26 | 1.27 | 1.28 |
| 600 | min | 0.650 | 0.680 | 0.721 | 0.728 | 0.732 | 0.737 | 0.747 |
| 1200 | min | 0.341 | 0.357 | 0.377 | 0.382 | 0.384 | 0.387 | 0.392 |

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%)