

12SB14C 12Volt 14Ah

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

| | | |
|--------------|-------------------|---------------|
| 20 hour rate | (0.7A to 10.50V) | 14Ah |
| 10 hour rate | (1.33A to 10.50V) | 13.3Ah |
| 5 hour rate | (2.38A to 10.20V) | 11.9Ah |
| 1 C | (14A to 9.60V) | 8.87Ah |
| 3 C | (42A to 9.60V) | 5.6Ah |

Weight **Approx. 4.28kg(9.42Lbs.)**

Internal Resistance (at 1KHz) **Approx. 9 mΩ**

Maximum Discharge Current for

5 seconds: **210A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mv/ /cell

Maximum Charging Current : **4.2A**

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**

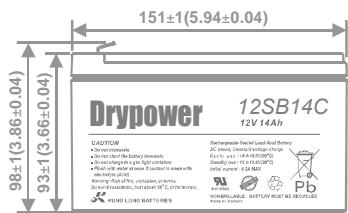
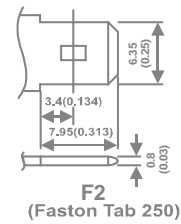
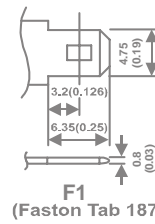
(Option: UL94 HB & UL94 V-0 flame retardant)

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

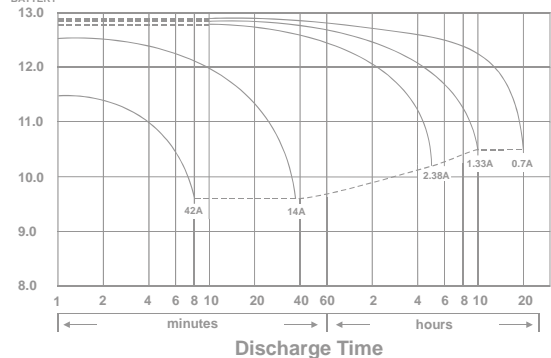


Dimensions

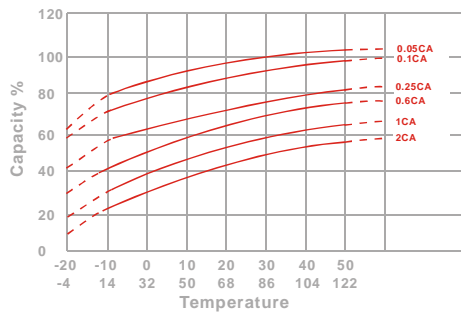
mm(inch)



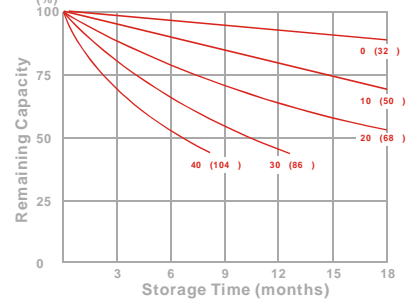
(v) Discharge Time VS. Discharge Current (25)



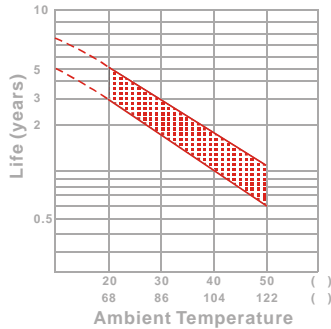
Effect of Temperature on Capacity 25 (77)



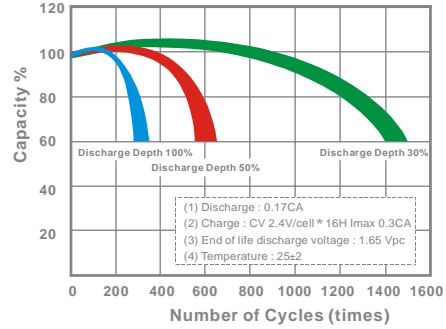
Capacity Retention Characteristic



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 |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| 5 | min | 454 | 495 | 526 | 558 | 576 | 602 | 619 |
| 10 | min | 335 | 354 | 375 | 397 | 406 | 414 | 427 |
| 15 | min | 248 | 263 | 271 | 283 | 286 | 298 | 302 |
| 30 | min | 154 | 159 | 162 | 167 | 169 | 172 | 178 |
| 60 | min | 99.0 | 102 | 104 | 106 | 107 | 108 | 110 |
| 120 | min | 54.0 | 56.1 | 57.4 | 58.7 | 59.3 | 59.8 | 61.2 |
| 180 | min | 40.5 | 41.2 | 41.8 | 42.4 | 42.5 | 42.9 | 43.2 |
| 240 | min | 33.8 | 34.5 | 35.3 | 35.7 | 35.9 | 36.1 | 36.4 |
| 300 | min | 29.8 | 30.2 | 30.5 | 30.8 | 30.9 | 31.1 | 31.3 |
| 600 | min | 16.6 | 17.0 | 17.2 | 17.4 | 17.5 | 17.6 | 17.9 |
| 1200 | min | 8.26 | 8.37 | 8.49 | 8.58 | 8.61 | 8.63 | 8.67 |

- 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 |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| 5 | min | 40.3 | 45.7 | 49.7 | 53.8 | 56.2 | 58.7 | 61.0 |
| 10 | min | 28.8 | 31.0 | 33.1 | 35.2 | 36.1 | 37.2 | 38.1 |
| 15 | min | 21.5 | 23.0 | 24.1 | 25.4 | 25.9 | 26.8 | 27.2 |
| 30 | min | 13.2 | 13.8 | 14.2 | 14.7 | 15.1 | 15.4 | 15.8 |
| 60 | min | 8.97 | 9.25 | 9.48 | 9.69 | 9.83 | 9.92 | 10.0 |
| 120 | min | 4.92 | 5.13 | 5.24 | 5.36 | 5.39 | 5.45 | 5.67 |
| 180 | min | 3.15 | 3.22 | 3.29 | 3.35 | 3.37 | 3.41 | 3.47 |
| 240 | min | 2.63 | 2.68 | 2.75 | 2.81 | 2.83 | 2.87 | 2.92 |
| 300 | min | 2.32 | 2.37 | 2.40 | 2.43 | 2.44 | 2.46 | 2.48 |
| 600 | min | 1.29 | 1.34 | 1.40 | 1.42 | 1.43 | 1.44 | 1.45 |
| 1200 | min | 0.677 | 0.705 | 0.718 | 0.723 | 0.725 | 0.728 | 0.730 |

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%)