

WP2.2-12 12Volt 2.2Ah

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

| | | |
|--------------|--------------------|---------------|
| 20 hour rate | (0.11A to 10.50V) | 2.2Ah |
| 10 hour rate | (0.209A to 10.50V) | 2.09Ah |
| 5 hour rate | (0.374A to 10.20V) | 1.87Ah |
| 1 C | (2.2A to 9.60V) | 1.25Ah |
| 3 C | (6.6A to 9.60V) | 0.88Ah |

Weight **Approx. 1.04kg(2.29Lbs.)**

Internal Resistance (at 1KHz) **Approx. 37 mΩ**

Maximum Discharge Current for

5 seconds: **33A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mV/ /cell

Maximum Charging Current : **0.66A**

Standby use:

Float Charging Voltage **13.5 to 13.8V**

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 UL94 HB**

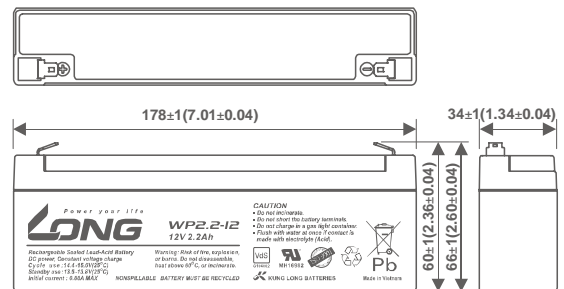
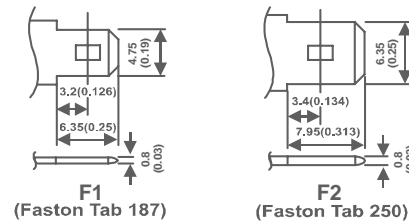
Option: Flammability resistance of (UL94 V-0)

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

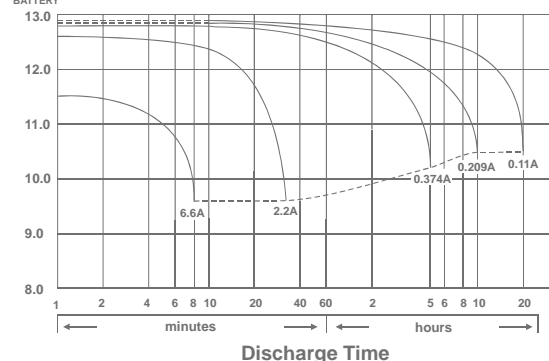


Dimensions

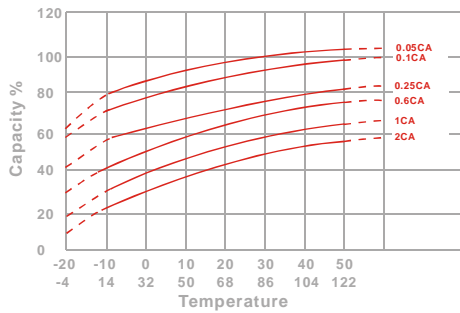
mm(inch)



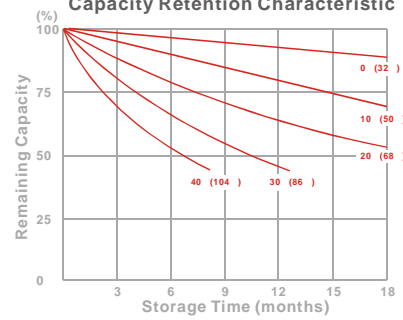
(v) Discharge Time VS. Discharge Current (25)



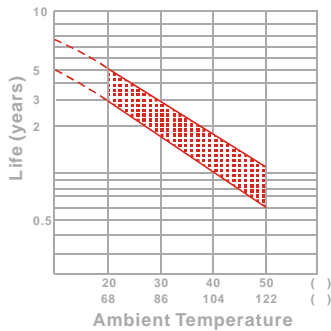
Effect of Temperature on Capacity 25 (77)



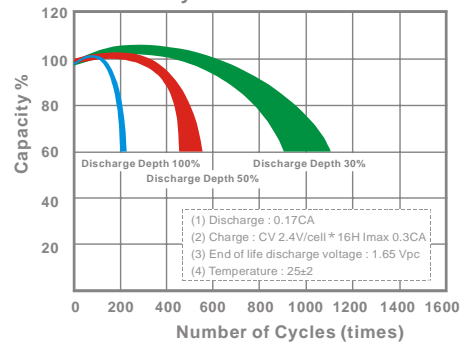
Capacity Retention Characteristic



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 |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Time | | | | | | | | |
| 5 | min | 11.2 | 13.6 | 14.7 | 15.2 | 15.5 | 15.7 | 16.1 |
| 10 | min | 7.70 | 9.32 | 10.0 | 10.5 | 10.7 | 10.8 | 10.9 |
| 15 | min | 6.72 | 7.46 | 7.70 | 7.90 | 7.97 | 8.01 | 8.10 |
| 30 | min | 3.60 | 3.88 | 4.02 | 4.13 | 4.15 | 4.21 | 4.27 |
| 60 | min | 2.25 | 2.43 | 2.59 | 2.66 | 2.68 | 2.71 | 2.74 |
| 120 | min | 1.35 | 1.46 | 1.53 | 1.59 | 1.61 | 1.64 | 1.68 |
| 180 | min | 1.01 | 1.11 | 1.15 | 1.19 | 1.20 | 1.22 | 1.25 |
| 240 | min | 0.824 | 0.892 | 0.932 | 0.962 | 0.973 | 0.985 | 0.995 |
| 300 | min | 0.688 | 0.765 | 0.787 | 0.802 | 0.807 | 0.813 | 0.820 |
| 600 | min | 0.405 | 0.442 | 0.455 | 0.463 | 0.467 | 0.470 | 0.473 |
| 1200 | min | 0.220 | 0.230 | 0.237 | 0.242 | 0.244 | 0.245 | 0.246 |

- 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 | 7.24 | 7.85 | 8.36 | 8.79 | 8.99 | 9.16 | 9.45 |
| 10 | min | 4.55 | 5.10 | 5.39 | 5.61 | 5.68 | 5.77 | 5.88 |
| 15 | min | 3.64 | 3.88 | 4.05 | 4.18 | 4.23 | 4.27 | 4.33 |
| 30 | min | 1.85 | 2.04 | 2.13 | 2.20 | 2.22 | 2.25 | 2.29 |
| 60 | min | 1.18 | 1.27 | 1.32 | 1.36 | 1.37 | 1.39 | 1.41 |
| 120 | min | 0.655 | 0.718 | 0.752 | 0.783 | 0.796 | 0.813 | 0.836 |
| 180 | min | 0.486 | 0.538 | 0.561 | 0.583 | 0.591 | 0.601 | 0.615 |
| 240 | min | 0.393 | 0.429 | 0.451 | 0.470 | 0.475 | 0.483 | 0.491 |
| 300 | min | 0.351 | 0.369 | 0.382 | 0.390 | 0.394 | 0.399 | 0.404 |
| 600 | min | 0.208 | 0.216 | 0.222 | 0.227 | 0.228 | 0.230 | 0.232 |
| 1200 | min | 0.109 | 0.113 | 0.116 | 0.118 | 0.119 | 0.120 | 0.121 |

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%)