

U1-36HH 12Volt 36Ah

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

| | | |
|--------------|-------------------|---------------|
| 20 hour rate | (1.8A to 10.50V) | 36Ah |
| 10 hour rate | (3.42A to 10.50V) | 34.2Ah |
| 5 hour rate | (6.12A to 10.20V) | 30.6Ah |
| 1 C | (36A to 9.60V) | 20.4Ah |
| 3 C | (108A to 9.60V) | 14.4Ah |

Weight **Approx. 10.7kg(23.54Lbs.)**

Internal Resistance (at 1KHz) **Approx. 8 mΩ**

Maximum Discharge Current for

5 seconds: **540A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mV/ /cell

Maximum Charging Current : **10.8A**

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**

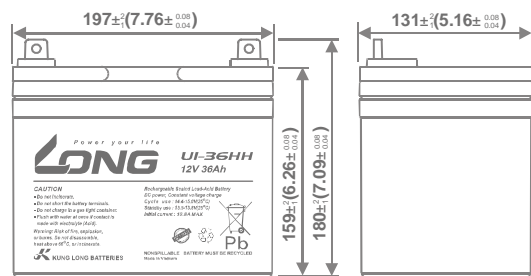
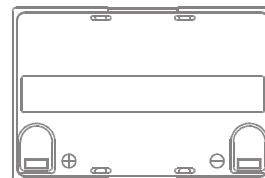
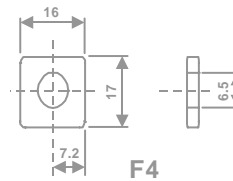
(Option: UL94 HB & UL94 V-0 flame retardant)

Terminal **F4**

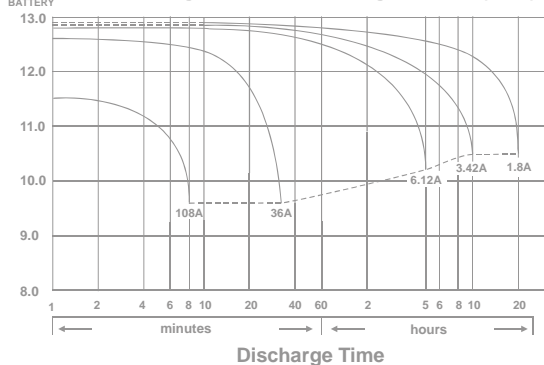


Dimensions

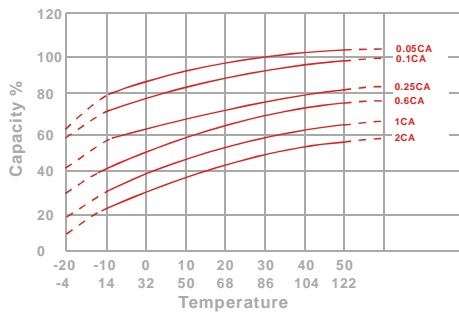
mm(inch)



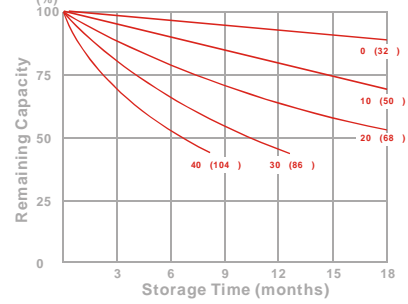
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25)



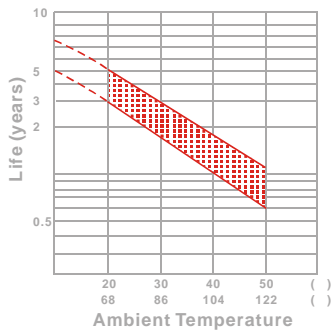
Effect of Temperature on Capacity 25 (77)



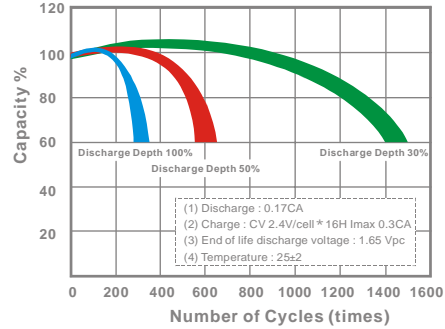
Capacity Retention Characteristic



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 |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| 5 | min | 1051 | 1129 | 1218 | 1289 | 1325 | 1358 | 1408 |
| 10 | min | 801 | 851 | 902 | 947 | 980 | 1000 | 1046 |
| 15 | min | 703 | 739 | 763 | 786 | 795 | 817 | 836 |
| 30 | min | 442 | 457 | 466 | 474 | 478 | 483 | 491 |
| 60 | min | 265 | 274 | 280 | 285 | 287 | 289 | 292 |
| 120 | min | 146 | 153 | 158 | 162 | 163 | 165 | 167 |
| 180 | min | 111 | 116 | 120 | 123 | 124 | 125 | 126 |
| 240 | min | 89.7 | 91.5 | 92.9 | 94.2 | 94.8 | 95.3 | 96.1 |
| 300 | min | 73.6 | 75.0 | 76.1 | 77.2 | 77.7 | 78.1 | 78.8 |
| 600 | min | 42.7 | 43.5 | 44.2 | 44.9 | 45.6 | 46.0 | 46.5 |
| 1200 | min | 21.8 | 22.5 | 23.0 | 23.5 | 23.7 | 23.9 | 24.2 |

- 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 | 93.3 | 104 | 115 | 124 | 128 | 132 | 139 |
| 10 | min | 69.0 | 74.3 | 79.4 | 84.2 | 86.7 | 89.4 | 93.9 |
| 15 | min | 60.8 | 63.7 | 64.9 | 66.0 | 66.4 | 66.9 | 67.6 |
| 30 | min | 37.3 | 38.9 | 39.8 | 40.6 | 41.1 | 41.4 | 42.1 |
| 60 | min | 20.6 | 21.7 | 22.6 | 23.4 | 23.7 | 24.1 | 24.5 |
| 120 | min | 11.7 | 12.3 | 12.8 | 13.2 | 13.3 | 13.5 | 13.7 |
| 180 | min | 8.89 | 9.21 | 9.42 | 9.61 | 9.68 | 9.75 | 9.83 |
| 240 | min | 7.38 | 7.52 | 7.59 | 7.64 | 7.66 | 7.69 | 7.73 |
| 300 | min | 6.27 | 6.38 | 6.43 | 6.48 | 6.50 | 6.52 | 6.55 |
| 600 | min | 3.52 | 3.59 | 3.64 | 3.68 | 3.69 | 3.71 | 3.73 |
| 1200 | min | 1.81 | 1.88 | 1.93 | 1.96 | 1.97 | 1.98 | 1.99 |

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%)