

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Capacity

| | | | | |
|--------------|--------|----|---------|-------|
| 20 hour rate | (0.75A | to | 10.50V) | 15Ah |
| 2 hour rate | (6A | to | 9.60V) | 12Ah |
| 1 C | (15A | to | 9.60V) | 8.5Ah |
| 3 C | (45A | to | 9.60V) | 3Ah |

Weight

Approx. 4.5kg(9.9Lbs.)

Internal Resistance (at 1KHz)

Approx. 9 mΩ

Maximum Discharge Current for

5 seconds: 225A

Charging Methods at 25°C(77°F)

| | |
|----------------------------|---------------|
| Cycle use: | |
| Charging Voltage | 14.4 to 15.0V |
| Coefficient -5.0mV/°C/cell | |
| Maximum Charging Current : | 4.5A |
| Standby use: | |
| Float Charging Voltage | 13.5 to 13.8V |
| 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 UL94 HB
Option: Flammability resistance of (UL94 V-0)

Design Life

3-5 Years.

Terminal

F2 (Faston Tab 250)



⚡ Dimensions

Length (L)

151±1 (5.94±0.04)

Width (W)

99±1 (3.90±0.04)

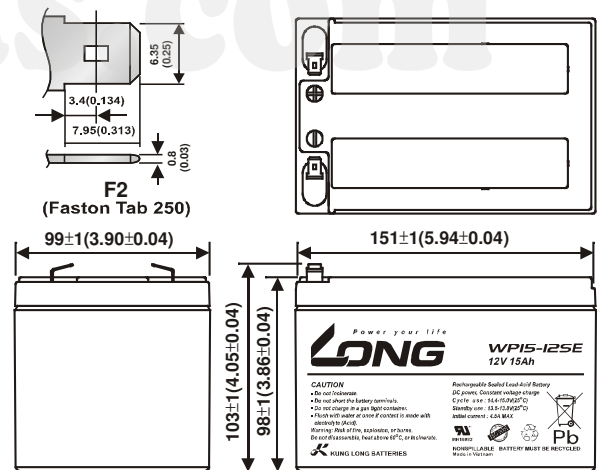
Height (H)

98±1 (3.86±0.04)

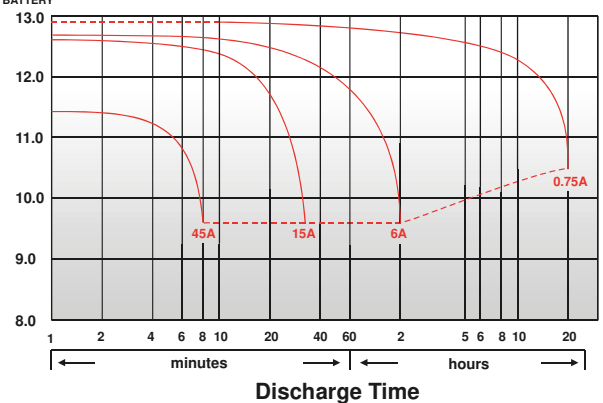
Overall Height (HT)

103±1 (4.05±0.04)

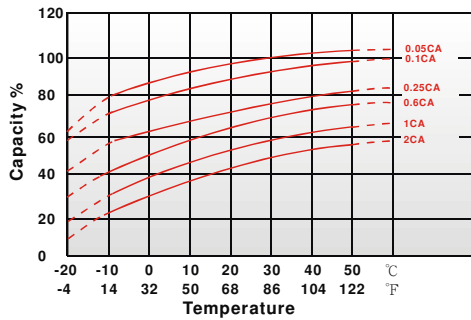
mm(inch)



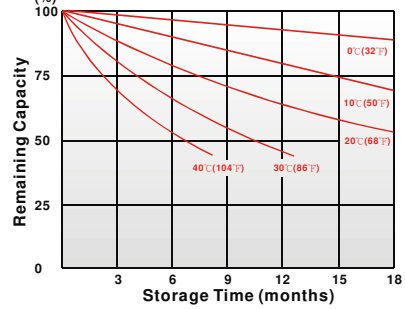
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



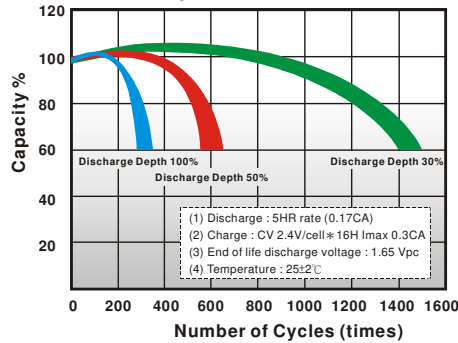
Effect of Temperature on Capacity 25°C(77°F)



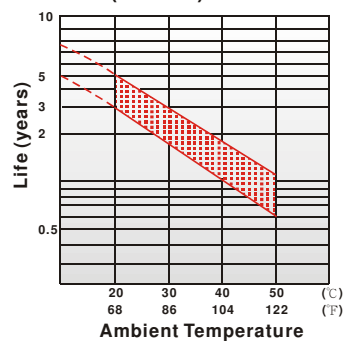
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



- PERFORMANCE DATA

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

| End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Time | | | | | | | | |
| 5 | min | 87.6 | 93.9 | 98.6 | 104 | 110 | 113 | 116 |
| 10 | min | 59.9 | 71.4 | 72.9 | 74.1 | 74.8 | 75.6 | 76.3 |
| 15 | min | 49.4 | 54.4 | 56.1 | 57.3 | 58.1 | 59.6 | 60.6 |
| 30 | min | 29.8 | 31.6 | 32.5 | 33.6 | 34.0 | 34.2 | 34.8 |
| 60 | min | 17.2 | 17.9 | 18.6 | 19.0 | 19.2 | 19.3 | 19.5 |
| 120 | min | 9.72 | 10.2 | 10.4 | 10.7 | 10.7 | 10.8 | 11.0 |
| 180 | min | 6.95 | 7.17 | 7.33 | 7.46 | 7.51 | 7.55 | 7.65 |
| 240 | min | 5.42 | 5.69 | 5.87 | 5.93 | 5.96 | 5.99 | 6.01 |
| 300 | min | 4.60 | 4.72 | 4.80 | 4.87 | 4.91 | 4.94 | 4.96 |
| 600 | min | 2.76 | 2.79 | 2.83 | 2.86 | 2.89 | 2.98 | 3.00 |
| 1200 | min | 1.43 | 1.49 | 1.53 | 1.56 | 1.59 | 1.60 | 1.61 |

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

| End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Time | | | | | | | | |
| 5 | min | 46.3 | 51.0 | 55.3 | 59.5 | 62.8 | 64.3 | 67.7 |
| 10 | min | 32.4 | 39.7 | 41.7 | 42.3 | 44.0 | 44.4 | 46.3 |
| 15 | min | 26.7 | 30.2 | 32.1 | 32.3 | 33.8 | 34.7 | 36.3 |
| 30 | min | 16.1 | 17.5 | 18.6 | 19.7 | 20.6 | 20.8 | 21.8 |
| 60 | min | 8.80 | 9.22 | 9.56 | 9.83 | 10.0 | 10.1 | 10.1 |
| 120 | min | 4.74 | 4.95 | 5.07 | 5.19 | 5.22 | 5.28 | 5.51 |
| 180 | min | 3.48 | 3.57 | 3.65 | 3.71 | 3.73 | 3.77 | 3.83 |
| 240 | min | 2.69 | 2.74 | 2.81 | 2.87 | 2.89 | 2.94 | 2.99 |
| 300 | min | 2.34 | 2.39 | 2.42 | 2.45 | 2.46 | 2.48 | 2.50 |
| 600 | min | 1.23 | 1.29 | 1.34 | 1.37 | 1.38 | 1.39 | 1.40 |
| 1200 | min | 0.692 | 0.741 | 0.750 | 0.756 | 0.758 | 0.761 | 0.764 |

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%)

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