

### ⚡ Specifications

#### Nominal Voltage(V)

12V

#### Nominal Capacity

|              |        |    |         |        |
|--------------|--------|----|---------|--------|
| 20 hour rate | (0.6A  | to | 10.50V) | 12Ah   |
| 5 hour rate  | (2.04A | to | 10.20V) | 10.2Ah |
| 1 hour rate  | (6.6A  | to | 9.60V)  | 6.6Ah  |
| 1 C          | (12A   | to | 9.60V)  | 6.4Ah  |

#### Weight

Approx. 4.0kg(8.8Lbs.)

#### Internal Resistance (at 1KHz)

Approx. 13 mΩ

#### Maximum Discharge Current for

5 seconds:180A

#### Charging Methods at 25°C(77°F)

|                            |               |
|----------------------------|---------------|
| Cycle use:                 |               |
| Charging Voltage           | 13.8 to 14.4V |
| Coefficient -5.0mV/°C/cell |               |
| Maximum Charging Current : | 3.6A          |
| 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

7-10 Years.

#### Terminal

F1 or F2 (Faston Tab 187 or 250)



### ⚡ Dimensions

#### Length (L)

151±1 (5.94±0.04)

#### Width (W)

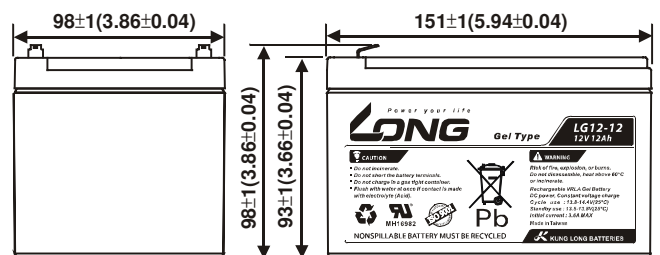
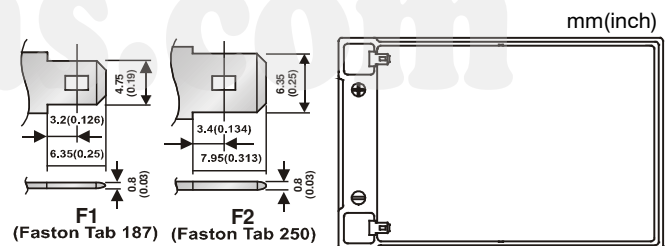
98±1 (3.86±0.04)

#### Height (H)

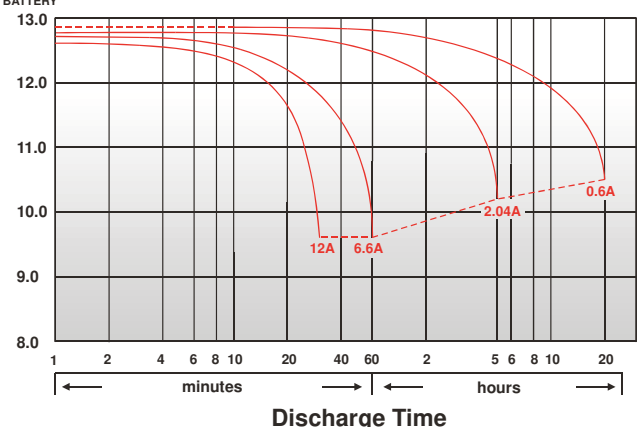
93±1 (3.66±0.04)

#### Overall Height (HT)

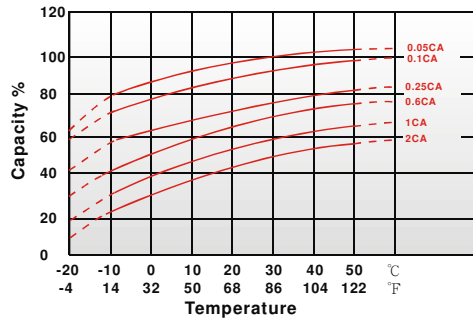
98±1 (3.86±0.04)



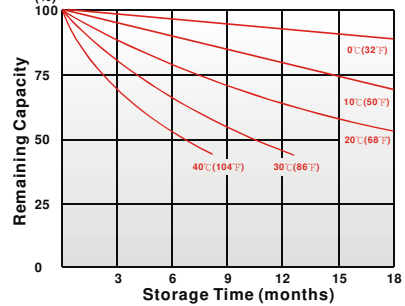
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



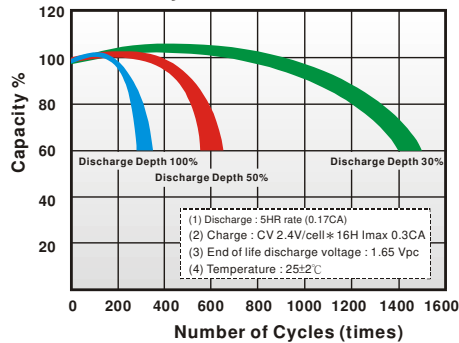
Effect of Temperature on Capacity 25°C(77°F)



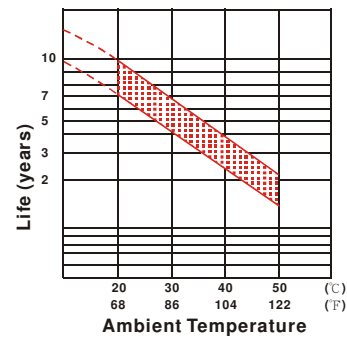
Capacity Retention Characteristic



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 | 61.2  | 69.4  | 74.3  | 78.0  | 79.8  | 81.7  | 84.8  |
| 10          | min | 40.4  | 46.4  | 50.4  | 53.4  | 54.8  | 55.3  | 56.8  |
| 15          | min | 27.8  | 34.2  | 38.2  | 41.3  | 42.2  | 43.2  | 44.2  |
| 30          | min | 16.8  | 19.7  | 21.8  | 23.3  | 23.8  | 24.3  | 24.8  |
| 60          | min | 13.1  | 14.1  | 14.6  | 14.9  | 15.1  | 15.2  | 15.3  |
| 120         | min | 7.58  | 8.03  | 8.32  | 8.57  | 8.65  | 8.75  | 8.86  |
| 180         | min | 5.25  | 5.60  | 5.85  | 6.05  | 6.12  | 6.21  | 6.28  |
| 240         | min | 4.37  | 4.62  | 4.82  | 4.97  | 5.03  | 5.10  | 5.18  |
| 300         | min | 3.88  | 4.03  | 4.15  | 4.27  | 4.32  | 4.36  | 4.43  |
| 600         | min | 2.23  | 2.32  | 2.38  | 2.45  | 2.47  | 2.50  | 2.54  |
| 1200        | min | 1.13  | 1.18  | 1.22  | 1.27  | 1.28  | 1.29  | 1.32  |

**- 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 | 32.6  | 38.4  | 42.1  | 45.1  | 46.4  | 47.7  | 50.3  |
| 10          | min | 20.9  | 24.3  | 26.6  | 28.5  | 29.1  | 29.6  | 30.4  |
| 15          | min | 18.2  | 19.6  | 20.8  | 21.7  | 22.0  | 22.3  | 22.9  |
| 30          | min | 10.9  | 11.7  | 12.1  | 12.5  | 12.6  | 12.8  | 13.0  |
| 60          | min | 7.02  | 7.53  | 7.76  | 7.97  | 8.05  | 8.12  | 8.21  |
| 120         | min | 3.63  | 3.92  | 4.10  | 4.25  | 4.31  | 4.36  | 4.42  |
| 180         | min | 2.57  | 2.78  | 2.94  | 3.05  | 3.09  | 3.13  | 3.18  |
| 240         | min | 2.09  | 2.27  | 2.39  | 2.46  | 2.49  | 2.52  | 2.56  |
| 300         | min | 1.92  | 2.00  | 2.06  | 2.11  | 2.13  | 2.16  | 2.20  |
| 600         | min | 1.09  | 1.14  | 1.18  | 1.21  | 1.22  | 1.24  | 1.26  |
| 1200        | min | 0.574 | 0.598 | 0.621 | 0.636 | 0.642 | 0.649 | 0.650 |

All data on the spec. sheet is an average value:

The tolerance range :  $X < 6\text{min}$ (+15%~-15%),  $6\text{min} \leq X < 10\text{min}$ (+12%~-12%),  $10\text{min} \leq X < 60\text{min}$ (+8%~-8%),  $X \geq 60\text{min}$ (+5%~-5%)

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