

### ⚡ 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)  | 7.93Ah |
| 3 C          | (42A   | to | 9.60V)  | 5.6Ah  |

#### Weight

Approx. 4.4kg(9.68Lbs.)

#### Internal Resistance (at 1KHz)

Approx. 10 mΩ

#### Maximum Discharge Current for

5 seconds: 210A

#### Charging Methods at 25°C(77°F)

|                            |                |
|----------------------------|----------------|
| Cycle use:                 |                |
| Charging Voltage           | 14.4 to 15.0V  |
| Coefficient                | -5.0mV/°C/cell |
| Maximum Charging Current : | 4.2A           |
| 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

F1 or F2 (Faston Tab 187 or 250)



### ⚡ Dimensions

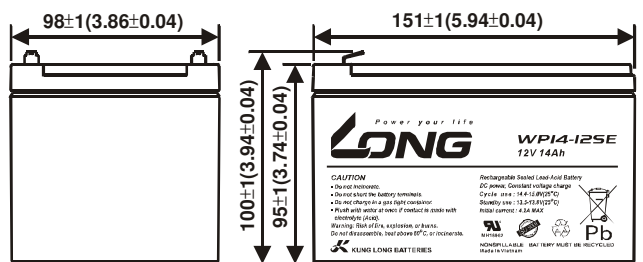
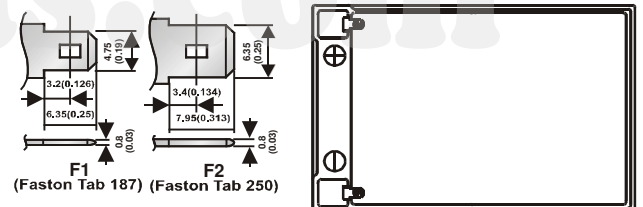
Length (L) 151±1 (5.94±0.04)

Width (W) 98±1 (3.86±0.04)

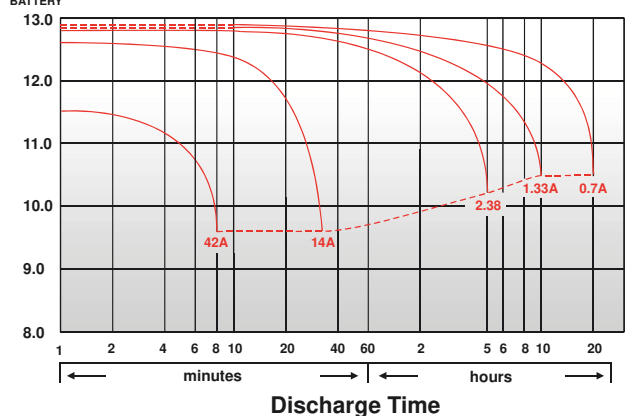
Height (H) 95±1 (3.74±0.04)

Overall Height (HT) 100±1 (3.94±0.04)

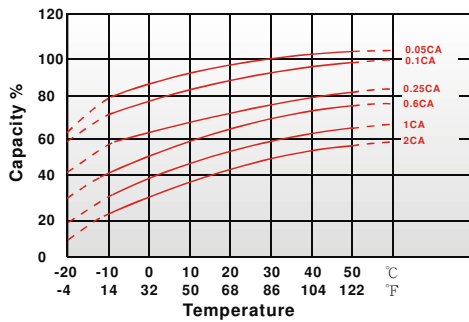
mm(inch)



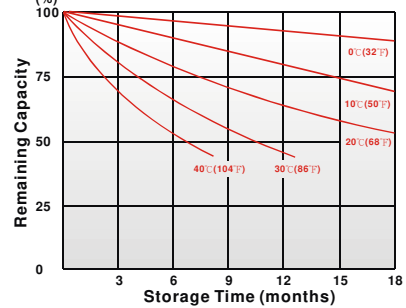
(V) Discharge Time VS. Discharge Current (25°C)



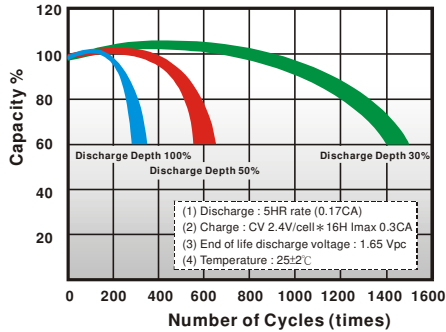
Effect of Temperature on Capacity 25°C(77°F)



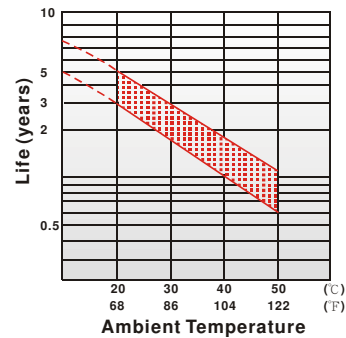
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



### - PERFORMANCE DATA

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

| Time | End Voltage | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 5    | min         | 74.8  | 85.2  | 92.3  | 98.8  | 101   | 104   | 106   |
| 10   | min         | 52.2  | 58.7  | 64.0  | 68.0  | 70.1  | 71.4  | 72.7  |
| 15   | min         | 39.5  | 43.0  | 46.2  | 48.3  | 49.2  | 50.5  | 51.2  |
| 30   | min         | 25.7  | 27.5  | 28.6  | 29.5  | 29.9  | 30.1  | 30.6  |
| 60   | min         | 17.0  | 17.9  | 18.5  | 19.0  | 19.2  | 19.4  | 19.5  |
| 120  | min         | 9.58  | 10.1  | 10.3  | 10.5  | 10.6  | 10.6  | 10.7  |
| 180  | min         | 6.85  | 7.07  | 7.22  | 7.35  | 7.40  | 7.44  | 7.54  |
| 240  | min         | 5.37  | 5.52  | 5.63  | 5.73  | 5.77  | 5.81  | 5.88  |
| 300  | min         | 4.58  | 4.70  | 4.78  | 4.85  | 4.89  | 4.92  | 4.94  |
| 600  | min         | 2.56  | 2.66  | 2.72  | 2.77  | 2.79  | 2.80  | 2.82  |
| 1200 | min         | 1.39  | 1.41  | 1.43  | 1.45  | 1.46  | 1.46  | 1.47  |

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

| Time | End Voltage | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 5    | min         | 44.5  | 49.9  | 53.9  | 58.0  | 60.4  | 62.9  | 65.2  |
| 10   | min         | 31.5  | 33.7  | 35.8  | 37.9  | 38.8  | 39.9  | 40.8  |
| 15   | min         | 22.9  | 24.4  | 25.5  | 26.8  | 27.3  | 28.2  | 28.6  |
| 30   | min         | 13.6  | 14.2  | 14.8  | 15.3  | 15.6  | 15.8  | 16.1  |
| 60   | min         | 8.67  | 9.09  | 9.42  | 9.69  | 9.83  | 9.92  | 10.0  |
| 120  | min         | 4.60  | 4.81  | 4.92  | 5.04  | 5.07  | 5.13  | 5.35  |
| 180  | min         | 3.38  | 3.47  | 3.54  | 3.60  | 3.62  | 3.66  | 3.72  |
| 240  | min         | 2.61  | 2.66  | 2.73  | 2.79  | 2.81  | 2.85  | 2.90  |
| 300  | min         | 2.27  | 2.32  | 2.35  | 2.38  | 2.39  | 2.41  | 2.43  |
| 600  | min         | 1.21  | 1.27  | 1.32  | 1.35  | 1.36  | 1.37  | 1.38  |
| 1200 | min         | 0.664 | 0.692 | 0.705 | 0.710 | 0.712 | 0.715 | 0.718 |

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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