

Trickle use

### Specifications

#### Nominal Voltage(V)

12V

#### Nominal Capacity

|              |         |    |        |        |
|--------------|---------|----|--------|--------|
| 20 hour rate | (0.6A)  | to | 10.50V | 12Ah   |
| 10 hour rate | (1.14A) | to | 10.50V | 11.4Ah |
| 5 hour rate  | (2.04A) | to | 10.20V | 10.2Ah |
| 1C           | (12A)   | to | 9.60V  | 7.6Ah  |
| 3C           | (36A)   | to | 9.60V  | 4.8Ah  |

#### Weight

Approx. 4.02kg(8.84Lbs.)

#### Internal Resistance (at 1KHz)

Approx. 11 mΩ

#### Maximum Discharge Current for

5 seconds: 180A

#### Charging Methods at 25°C(77°F)

|                            |               |
|----------------------------|---------------|
| 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 & Standard

Expected Trickle Design Life: 6-9 years at 20°C according to Eurobat.

#### Terminal

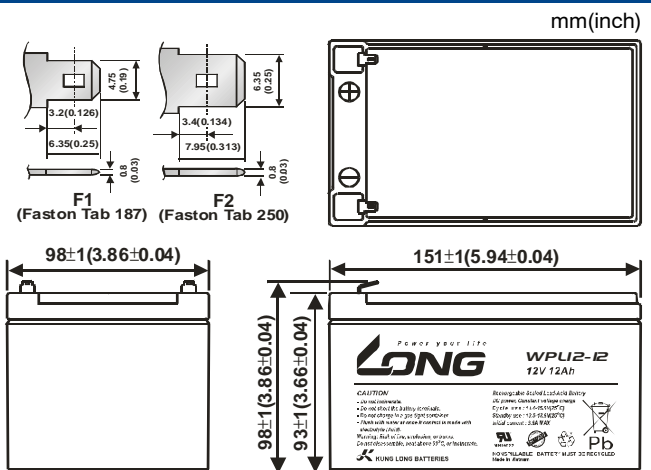
F1 or F2 (Faston Tab 187 or 250)



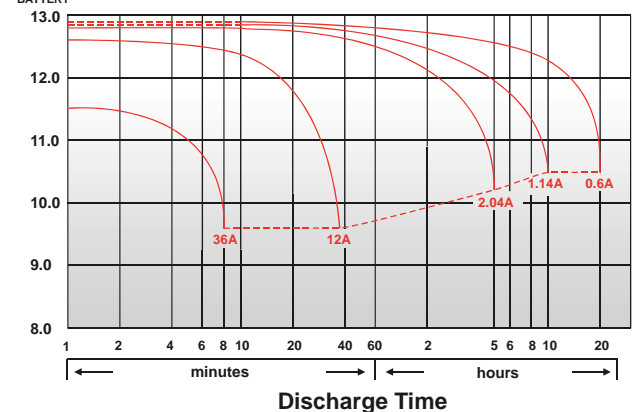
### Dimensions

|                     |                   |
|---------------------|-------------------|
| 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)  |

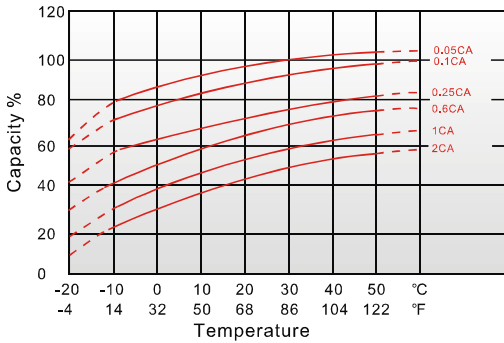
#### Description of torque value of hard ware for the terminals:



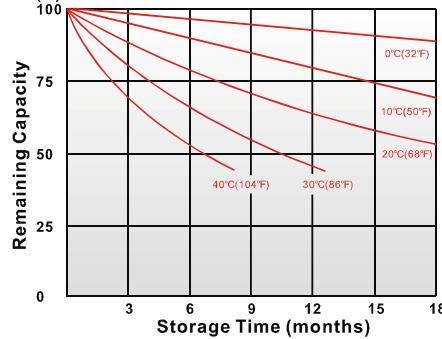
#### Discharge Time VS. Discharge Current (25°C)



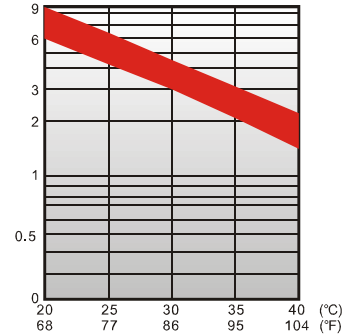
Effect of Temperature on Capacity 25°C(77°F)



Capacity Retention Characteristic



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 |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| 5           | min | 77.2  | 84.2  | 89.3  | 94.8  | 97.3  | 99.7  | 105   |
| 10          | min | 56.5  | 60.3  | 63.0  | 65.3  | 66.2  | 67.5  | 68.8  |
| 15          | min | 42.2  | 45.3  | 47.2  | 48.5  | 49.2  | 49.8  | 51.0  |
| 30          | min | 26.7  | 28.0  | 29.0  | 30.0  | 30.3  | 30.7  | 31.2  |
| 60          | min | 14.9  | 15.9  | 16.6  | 17.2  | 17.3  | 17.5  | 17.7  |
| 120         | min | 7.80  | 8.60  | 9.02  | 9.22  | 9.28  | 9.38  | 9.52  |
| 180         | min | 5.40  | 6.15  | 6.53  | 6.68  | 6.97  | 7.10  | 7.20  |
| 240         | min | 4.43  | 4.97  | 5.22  | 5.37  | 5.43  | 5.52  | 5.62  |
| 300         | min | 4.12  | 4.35  | 4.51  | 4.65  | 4.72  | 4.77  | 4.83  |
| 600         | min | 2.43  | 2.55  | 2.62  | 2.66  | 2.68  | 2.70  | 2.72  |
| 1200        | min | 1.29  | 1.31  | 1.35  | 1.37  | 1.39  | 1.40  | 1.43  |

#### - 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 |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| 5           | min | 37.8  | 41.8  | 44.6  | 47.5  | 48.8  | 50.1  | 52.7  |
| 10          | min | 28.1  | 30.3  | 31.5  | 32.7  | 33.2  | 33.8  | 34.6  |
| 15          | min | 21.3  | 22.6  | 23.7  | 24.6  | 25.0  | 25.4  | 26.1  |
| 30          | min | 12.6  | 13.5  | 14.1  | 14.6  | 14.8  | 15.0  | 15.3  |
| 60          | min | 8.55  | 8.74  | 8.86  | 8.97  | 9.02  | 9.08  | 9.16  |
| 120         | min | 4.71  | 4.84  | 4.95  | 5.04  | 5.08  | 5.13  | 5.18  |
| 180         | min | 3.14  | 3.33  | 3.40  | 3.46  | 3.49  | 3.52  | 3.56  |
| 240         | min | 2.15  | 2.26  | 2.35  | 2.42  | 2.45  | 2.49  | 2.74  |
| 300         | min | 1.98  | 2.06  | 2.12  | 2.18  | 2.20  | 2.23  | 2.27  |
| 600         | min | 1.19  | 1.22  | 1.24  | 1.26  | 1.27  | 1.28  | 1.29  |
| 1200        | min | 0.619 | 0.626 | 0.645 | 0.654 | 0.661 | 0.669 | 0.683 |

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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