

### ⚡ Specifications

#### Nominal Voltage(V)

12V

#### Nominal Power

15 mins rate: 450W/cell to 1.67V/cell

#### Nominal Capacity

|              |                    |         |
|--------------|--------------------|---------|
| 20 hour rate | (7.5A to 10.50V)   | 150Ah   |
| 10 hour rate | (14.25A to 10.50V) | 142.5Ah |
| 8 hour rate  | (17.25A to 10.50V) | 138Ah   |
| 5 hour rate  | (25.5A to 10.20V)  | 127.5Ah |

#### Weight

Approx. 44.3kg(97.5Lbs.)

#### Internal Resistance (at 1KHz)

Approx. 4.5 mΩ

#### Maximum Discharge Current for

5 seconds: 1500A

#### Short Circuit Current (A) IEC 60896-21-22

2432A

#### Charging Methods at 25°C(77°F)

|                            |                |
|----------------------------|----------------|
| Maximum Charging Current : | 45A            |
| Boost Charging Voltage     | 14.1 to 14.4V  |
| Boost Charge Time          | 8-9Hr          |
| Float Charging Voltage     | 13.5 to 13.65V |
| 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 | 98% |
| 3 month | 96% |
| 6 month | 94% |

#### Case Material

ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)

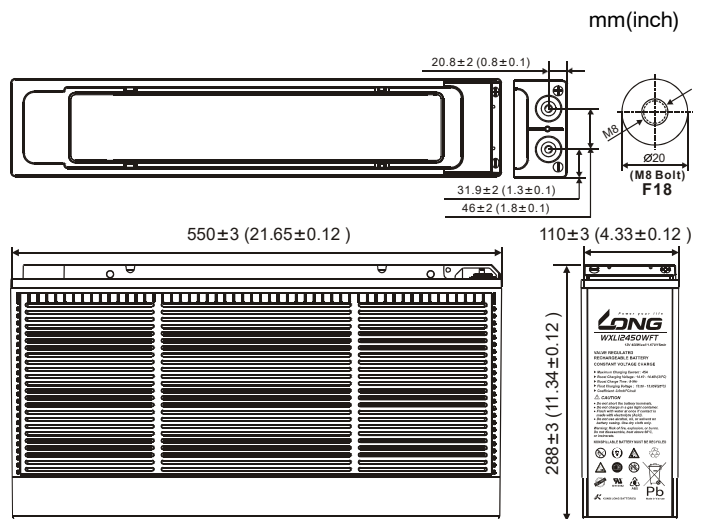
#### Battery Construction

| Component    | Positive Plate | Negative plate | Safety valve | Terminal | Separator | Electrolyte   |
|--------------|----------------|----------------|--------------|----------|-----------|---------------|
| Raw material | Lead dioxide   | Lead           | Rubber       | Copper   | AGM       | Sulfuric acid |



### ⚡ Dimensions

|                     |                    |
|---------------------|--------------------|
| Length (L)          | 550±3 (21.65±0.12) |
| Width (W)           | 110±3 (4.33±0.12)  |
| Height (H)          | 288±3 (11.34±0.12) |
| Overall Height (HT) | 288±3 (11.34±0.12) |



#### Terminal

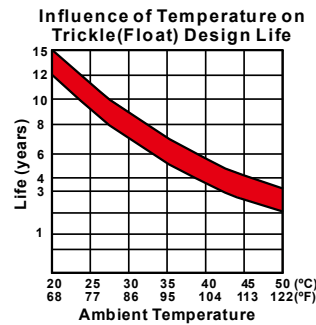
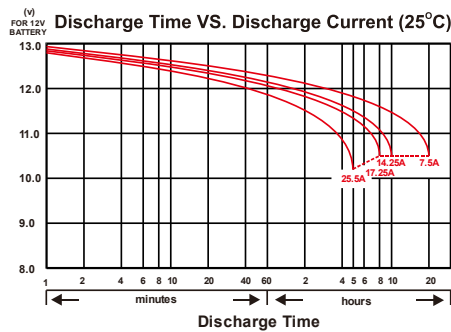
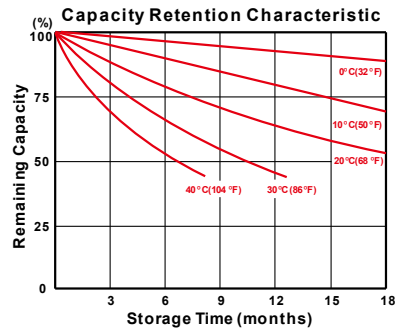
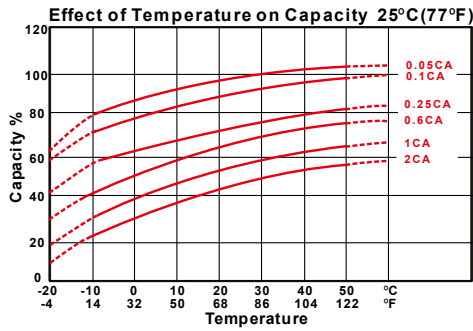
F18

Recommended torque value M8: 12 N-m (122 kgf-cm)

Maximum allowable torque value M8: 20 N-m (204 kgf-cm)

#### Design Life

EUROBAT(20°C) : > 12 YEARS VERY LONG 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 |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| 15          | min | 330   | 405   | 456   | 489   | 499   | 509   | 520   |
| 30          | min | 197   | 241   | 272   | 291   | 297   | 303   | 310   |
| 60          | min | 164   | 175   | 182   | 186   | 187   | 188   | 189   |
| 120         | min | 88.3  | 93.2  | 95.8  | 98    | 98.8  | 99.7  | 101   |
| 180         | min | 70.2  | 73.8  | 76.5  | 78.5  | 79.2  | 80    | 80.8  |
| 240         | min | 57.5  | 60.3  | 62.2  | 63.7  | 64.2  | 64.8  | 65.5  |
| 300         | min | 48.8  | 51.2  | 52.6  | 53.2  | 53.4  | 53.6  | 53.8  |
| 480         | min | 32.4  | 33.3  | 34.6  | 35.5  | 35.8  | 36.1  | 36.4  |
| 600         | min | 29.3  | 30.2  | 30.8  | 31.1  | 31.3  | 31.5  | 31.7  |
| 1200        | min | 15.0  | 15.5  | 15.8  | 16.0  | 16.2  | 16.3  | 16.4  |

#### 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 |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| 15          | min | 187   | 217   | 241   | 261   | 275   | 288   | 298   |
| 30          | min | 107   | 132   | 148   | 159   | 162   | 165   | 169   |
| 60          | min | 82.7  | 89.9  | 92.7  | 94.8  | 95.6  | 96.4  | 97.5  |
| 120         | min | 43.7  | 49.6  | 52.1  | 53.9  | 54.6  | 55.4  | 56.4  |
| 180         | min | 33.4  | 37.2  | 39.1  | 40.5  | 41    | 41.6  | 42.3  |
| 240         | min | 27.4  | 30.1  | 31.4  | 32.4  | 32.7  | 33.1  | 33.5  |
| 300         | min | 22.7  | 24.3  | 25.5  | 25.9  | 26.2  | 26.4  | 26.6  |
| 480         | min | 15.9  | 17.3  | 17.5  | 17.7  | 17.9  | 18.1  | 18.3  |
| 600         | min | 14.4  | 15.0  | 15.1  | 15.2  | 15.3  | 15.4  | 15.5  |
| 1200        | min | 7.23  | 7.50  | 7.57  | 7.63  | 7.68  | 7.74  | 7.80  |

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%)

250226-1C