

### ⚡ Specifications

#### Nominal Voltage(V)

12V

#### Nominal Power

15 mins rate: 950W/cell to 1.67V/cell

#### Nominal Capacity

|              |                    |         |
|--------------|--------------------|---------|
| 20 hour rate | (12.5A to 10.50V)  | 250Ah   |
| 10 hour rate | (23.75A to 10.50V) | 237.5Ah |
| 8 hour rate  | (28.75A to 10.50V) | 230Ah   |
| 5 hour rate  | (42.5A to 10.20V)  | 212.5Ah |

#### Weight

Approx. 75kg(165.0Lbs.)

#### Internal Resistance (at 1KHz)

Approx. 2.1 mΩ

#### Maximum Discharge Current for

5 seconds: 2000A

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

5980A

#### Charging Methods at 25°C(77°F)

|                            |                |
|----------------------------|----------------|
| Maximum Charging Current : | 75A            |
| 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

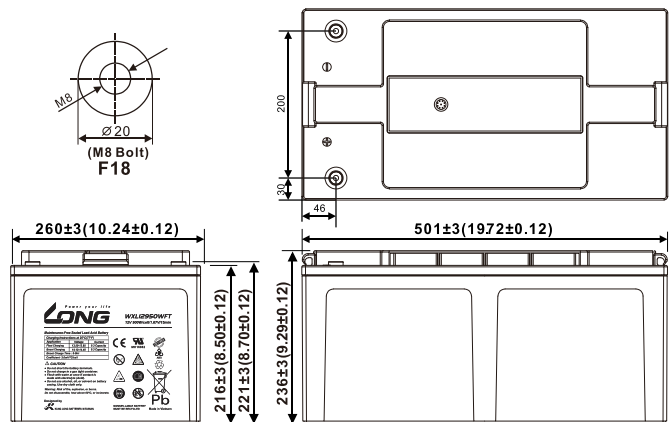
| Component    | Positive Plate | Negative plate | Safety valve | Terminal | Separator | Electrolyte   |
|--------------|----------------|----------------|--------------|----------|-----------|---------------|
| Raw material | Lead dioxide   | Lead           | Rubber       | Copper   | AGM       | Sulfuric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



### ⚡ Dimensions

|                     |                    |
|---------------------|--------------------|
| Length (L)          | 501±3 (19.72±0.12) |
| Width (W)           | 260±3 (10.24±0.12) |
| Height (H)          | 216±3 (8.50±0.12)  |
| Overall Height (HT) | 236±3 (9.29±0.12)  |

mm(inch)



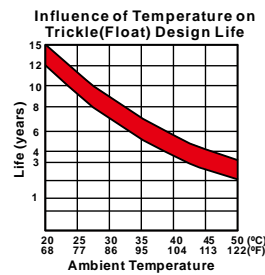
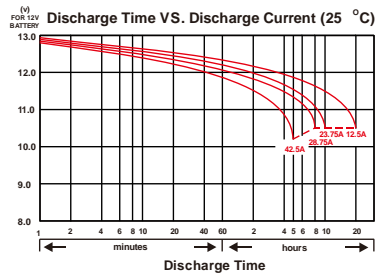
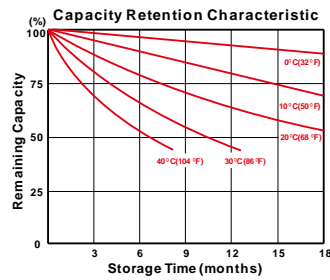
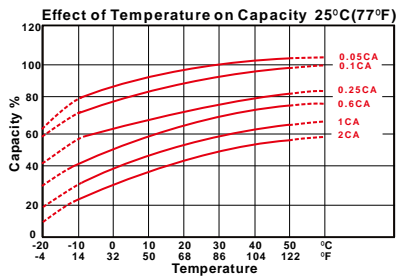
#### Terminal

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 |     | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|
| 5           | min | 1222  | 1378  | 1420  | 1444  | 1458  | 1495  |
| 10          | min | 1073  | 1146  | 1182  | 1192  | 1200  | 1222  |
| 15          | min | 874   | 914   | 935   | 950   | 953   | 956   |
| 30          | min | 544   | 562   | 571   | 573   | 576   | 581   |
| 45          | min | 394   | 406   | 411   | 413   | 414   | 416   |
| 60          | min | 323   | 334   | 340   | 341   | 342   | 344   |
| 120         | min | 184   | 189   | 191   | 192   | 192   | 193   |
| 180         | min | 131   | 135   | 137   | 138   | 138   | 139   |
| 240         | min | 102   | 105   | 108   | 108   | 108   | 109   |
| 300         | min | 85.3  | 88.1  | 89.4  | 89.8  | 90.1  | 90.4  |
| 360         | min | 74.6  | 76.9  | 78.0  | 78.5  | 78.7  | 78.9  |
| 480         | min | 56.9  | 58.5  | 59.2  | 59.6  | 59.7  | 59.9  |
| 600         | min | 47.2  | 48.0  | 48.5  | 48.6  | 48.7  | 48.9  |
| 1200        | min | 24.7  | 25.0  | 25.2  | 25.2  | 25.3  | 25.3  |

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

| End Voltage |     | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|
| 5           | min | 635   | 729   | 796   | 805   | 818   | 848   |
| 10          | min | 577   | 626   | 665   | 670   | 676   | 692   |
| 15          | min | 466   | 493   | 514   | 517   | 524   | 532   |
| 30          | min | 281   | 293   | 301   | 302   | 304   | 309   |
| 45          | min | 195   | 202   | 207   | 208   | 210   | 213   |
| 60          | min | 157   | 163   | 167   | 167   | 168   | 170   |
| 120         | min | 88.0  | 91.0  | 92.0  | 93.0  | 93.0  | 94.0  |
| 180         | min | 62.0  | 65.0  | 66.0  | 66.0  | 67.0  | 67.0  |
| 240         | min | 49.0  | 50.0  | 51.0  | 51.0  | 52.0  | 52.0  |
| 300         | min | 40.0  | 42.0  | 42.0  | 43.0  | 43.0  | 44.0  |
| 360         | min | 35.0  | 36.0  | 37.0  | 37.0  | 38.0  | 38.0  |
| 480         | min | 27.0  | 27.0  | 28.0  | 28.0  | 28.0  | 29.0  |
| 600         | min | 24.0  | 24.0  | 24.0  | 25.0  | 25.0  | 25.0  |
| 1200        | min | 12.5  | 12.7  | 12.8  | 12.8  | 12.8  | 12.9  |

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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