

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Power

15 mins rate: 550W/cell to 1.67V/cell

Nominal Capacity

| | | | | |
|--------------|--------|----|---------|---------|
| 20 hour rate | (7.0A | to | 10.50V) | 140Ah |
| 10 hour rate | (13.3A | to | 10.50V) | 133Ah |
| 8 hour rate | (16.1A | to | 10.50V) | 128.8Ah |
| 5 hour rate | (23.8A | to | 10.20V) | 119Ah |

Weight

Approx. 45kg(99Lbs.)

Internal Resistance (at 1KHz)

Approx. 3.5 mΩ

Maximum Discharge Current for

5 seconds: 1400A

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

3850 A

Charging Methods at 25°C(77°F)

| | |
|----------------------------|----------------|
| Maximum Charging Current : | 42A |
| 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)

338 ±₁^{±0.08} (13.31 ±_{0.04}^{±0.08})

Width (W)

173 ±₁^{±0.08} (6.81 ±_{0.04}^{±0.08})

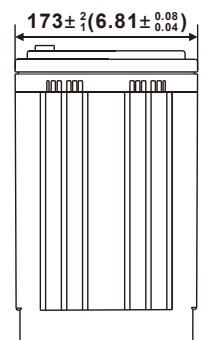
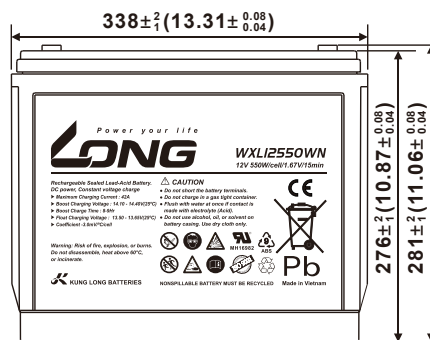
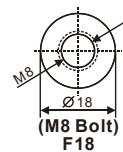
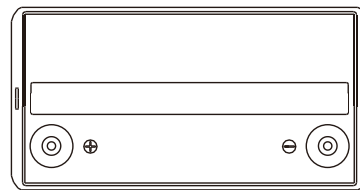
Height (H)

276 ±₁^{±0.08} (10.87 ±_{0.04}^{±0.08})

Overall Height (HT)

281 ±₁^{±0.08} (11.06 ±_{0.04}^{±0.08})

mm(inch)



Terminal

F18

Recommended torque value

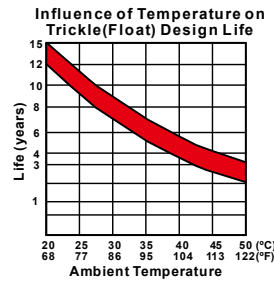
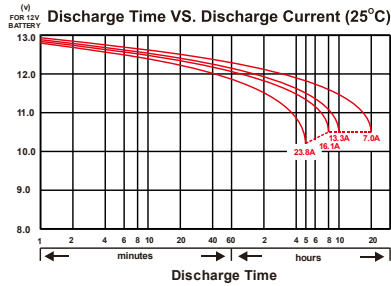
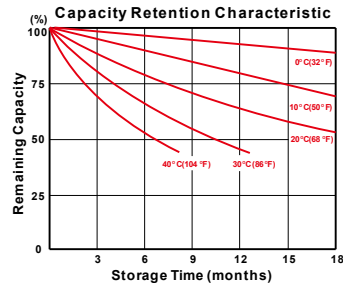
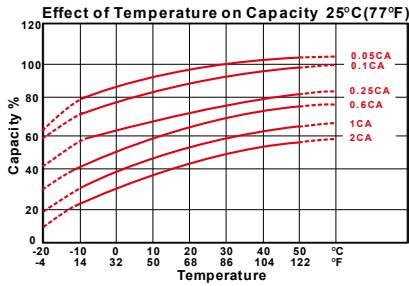
M8: 12 N-m (122kgf-cm)

Maximum allowable torque value

M8: 20 N-m (204kgf-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 |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| 2 | min | 808 | 926 | 1035 | 1144 | 1234 | 1324 | 1400 |
| 4 | min | 800 | 887 | 957 | 1012 | 1052 | 1082 | 1112 |
| 5 | min | 698 | 803 | 893 | 963 | 1023 | 1063 | 1096 |
| 8 | min | 637 | 695 | 738 | 773 | 801 | 819 | 834 |
| 10 | min | 570 | 630 | 672 | 705 | 738 | 751 | 761 |
| 15 | min | 475 | 515 | 530 | 543 | 553 | 558 | 562 |
| 30 | min | 300 | 312 | 317 | 322 | 325 | 328 | 330 |
| 45 | min | 234 | 239 | 241 | 243 | 245 | 246 | 247 |
| 60 | min | 151 | 163 | 171 | 173 | 175 | 176 | 177 |
| 90 | min | 101 | 109 | 114 | 119 | 124 | 127 | 130 |
| 120 | min | 84.3 | 87.8 | 90.3 | 91.6 | 92.5 | 93.3 | 93.8 |
| 180 | min | 66.2 | 68.1 | 69.3 | 70.1 | 70.5 | 70.7 | 70.9 |
| 240 | min | 49.3 | 50.9 | 51.7 | 52.1 | 52.4 | 52.6 | 52.8 |
| 300 | min | 42.8 | 44.2 | 45.1 | 45.4 | 45.7 | 45.9 | 46.1 |
| 480 | min | 26.3 | 27.5 | 28.4 | 28.9 | 29.4 | 29.7 | 30.0 |
| 600 | min | 24.0 | 25.2 | 25.5 | 25.7 | 25.8 | 25.9 | 25.9 |
| 1200 | min | 12.7 | 13.0 | 13.5 | 13.7 | 13.8 | 13.9 | 14.0 |

- 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 |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| 2 | min | 450 | 530 | 598 | 661 | 713 | 765 | 809 |
| 4 | min | 388 | 463 | 527 | 564 | 598 | 630 | 660 |
| 5 | min | 380 | 445 | 506 | 527 | 560 | 580 | 598 |
| 8 | min | 320 | 358 | 392 | 422 | 447 | 467 | 482 |
| 10 | min | 285 | 332 | 372 | 380 | 385 | 388 | 390 |
| 15 | min | 236 | 261 | 281 | 301 | 309 | 314 | 317 |
| 30 | min | 142 | 157 | 166 | 171 | 174 | 177 | 180 |
| 45 | min | 117 | 122 | 127 | 128 | 128 | 129 | 129 |
| 60 | min | 77.5 | 79.4 | 81.0 | 81.2 | 81.4 | 81.6 | 81.7 |
| 90 | min | 62.2 | 64.0 | 65.4 | 65.8 | 66.0 | 66.2 | 66.4 |
| 120 | min | 45.5 | 48.4 | 50.0 | 50.8 | 51.2 | 51.6 | 51.8 |
| 180 | min | 29.8 | 33.0 | 33.3 | 33.6 | 33.8 | 34.0 | 34.2 |
| 240 | min | 25.3 | 27.5 | 29.0 | 29.7 | 30.0 | 30.2 | 30.4 |
| 300 | min | 22.7 | 24.6 | 25.2 | 25.5 | 25.7 | 25.8 | 25.9 |
| 480 | min | 14.9 | 15.0 | 15.9 | 16.0 | 16.1 | 16.1 | 16.2 |
| 600 | min | 13.2 | 14.0 | 14.2 | 14.3 | 14.4 | 14.4 | 14.5 |
| 1200 | min | 7.12 | 7.30 | 7.40 | 7.41 | 7.42 | 7.43 | 7.43 |

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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