

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Power

15 mins rate: 710W/cell to 1.67V/cell

Nominal Capacity

| | | |
|--------------|--------------------|---------|
| 20 hour rate | (9.5A to 10.50V) | 190Ah |
| 10 hour rate | (18.05A to 10.50V) | 180.5Ah |
| 8 hour rate | (21.85A to 10.50V) | 174.8Ah |
| 5 hour rate | (32.3A to 10.20V) | 161.5Ah |

Weight

Approx. 59.5kg(131Lbs.)

Internal Resistance (at 1KHz)

Approx. 3.5 mΩ

Maximum Discharge Current for

5 seconds: 1615A

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

3400 A

Charging Methods at 25°C(77°F)

| | |
|----------------------------|----------------|
| Maximum Charging Current : | 57A |
| 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

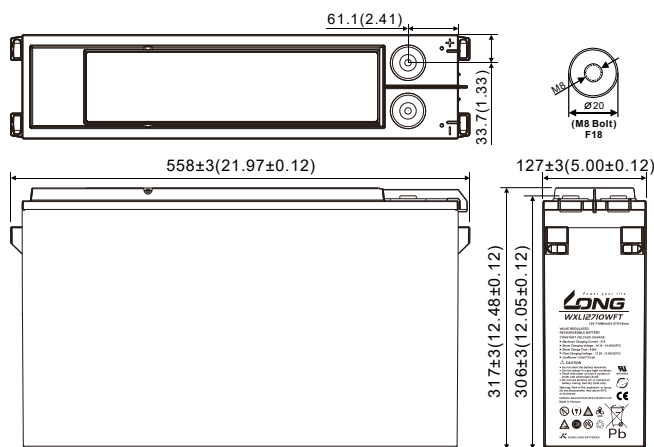
| Component | Positive Plate | Negative plate | Safety valve | Terminal | Separator | Electrolyte |
|--------------|----------------|----------------|--------------|----------|-----------|---------------|
| Raw material | Lead dioxide | Lead | Rubber | Copper | AGM | Sulfuric acid |



⚡ Dimensions

| | |
|---------------------|--------------------|
| Length (L) | 558±3 (21.97±0.12) |
| Width (W) | 127±3 (5.00±0.12) |
| Height (H) | 317±3 (12.48±0.12) |
| Overall Height (HT) | 317±3 (12.48±0.12) |

mm(inch)



Terminal

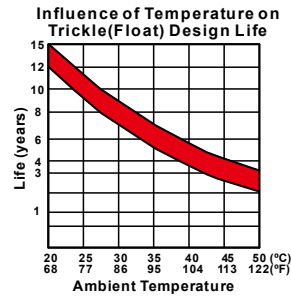
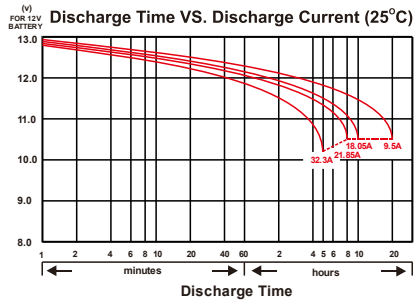
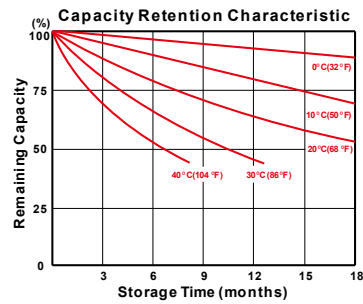
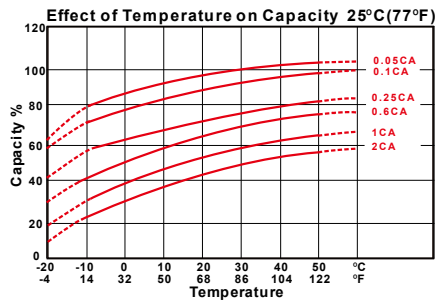
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Recommended torque value M8: 12 N-m (122 kgf-cm)

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)

| Time | End Voltage | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 2 | min | 891 | 990 | 1084 | 1173 | 1252 | 1332 | 1408 |
| 4 | min | 833 | 911 | 980 | 1038 | 1089 | 1137 | 1185 |
| 5 | min | 768 | 857 | 926 | 985 | 1050 | 1095 | 1135 |
| 8 | min | 700 | 780 | 845 | 888 | 915 | 935 | 945 |
| 10 | min | 650 | 717 | 777 | 827 | 860 | 878 | 891 |
| 15 | min | 580 | 635 | 680 | 700 | 710 | 720 | 725 |
| 30 | min | 400 | 425 | 445 | 453 | 457 | 461 | 463 |
| 45 | min | 299 | 317 | 331 | 335 | 337 | 338 | 339 |
| 60 | min | 210 | 217 | 221 | 224 | 226 | 227 | 228 |
| 90 | min | 150 | 156 | 160 | 163 | 165 | 166 | 167 |
| 120 | min | 120 | 127 | 131 | 134 | 136 | 137 | 138 |
| 180 | min | 87.0 | 90.5 | 93.0 | 94.5 | 95.3 | 95.8 | 96.0 |
| 240 | min | 70.0 | 72.5 | 74.3 | 75.3 | 75.8 | 76.0 | 76.1 |
| 300 | min | 59.5 | 61.4 | 62.7 | 63.5 | 64.0 | 64.2 | 64.3 |
| 480 | min | 39.5 | 42.0 | 43.8 | 44.6 | 45.1 | 45.4 | 45.5 |
| 600 | min | 35.0 | 36.5 | 37.2 | 37.6 | 37.8 | 37.9 | 38.0 |
| 1200 | min | 18.0 | 18.8 | 19.2 | 19.4 | 19.5 | 19.5 | 19.6 |

- 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 |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 2 | min | 478 | 552 | 617 | 680 | 734 | 789 | 841 |
| 4 | min | 439 | 498 | 548 | 597 | 640 | 681 | 713 |
| 5 | min | 415 | 475 | 530 | 580 | 615 | 650 | 680 |
| 8 | min | 365 | 420 | 470 | 506 | 535 | 560 | 580 |
| 10 | min | 340 | 390 | 430 | 463 | 488 | 505 | 520 |
| 15 | min | 300 | 345 | 380 | 400 | 410 | 417 | 420 |
| 30 | min | 205 | 225 | 240 | 249 | 254 | 257 | 260 |
| 45 | min | 150 | 156 | 160 | 163 | 165 | 166 | 167 |
| 60 | min | 110 | 116 | 120 | 123 | 125 | 127 | 128 |
| 90 | min | 79.0 | 82.0 | 84.5 | 86.0 | 86.8 | 87.3 | 87.5 |
| 120 | min | 60.3 | 64.9 | 69.0 | 72.0 | 74.2 | 75.4 | 76.2 |
| 180 | min | 44.5 | 47.0 | 49.0 | 50.1 | 50.7 | 51.1 | 51.4 |
| 240 | min | 35.8 | 37.6 | 39.2 | 40.3 | 40.8 | 40.9 | 41.0 |
| 300 | min | 29.0 | 31.2 | 33.0 | 33.5 | 33.7 | 33.9 | 34.0 |
| 480 | min | 20.2 | 22.3 | 22.9 | 23.2 | 23.4 | 23.5 | 23.6 |
| 600 | min | 18.1 | 19.1 | 19.2 | 19.3 | 19.3 | 19.3 | 19.4 |
| 1200 | min | 9.15 | 9.62 | 9.69 | 9.71 | 9.74 | 9.75 | 9.77 |

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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