

Specifications

Nominal Voltage(V)

12V

Nominal Power

15 mins rate: 400W/cell to 1.67V/cell

Nominal Capacity

| | | | | |
|--------------|--------|----|---------|-------|
| 20 hour rate | (5A | to | 10.50V) | 100Ah |
| 10 hour rate | (9.5A | to | 10.50V) | 95Ah |
| 8 hour rate | (11.5A | to | 10.50V) | 92Ah |
| 5 hour rate | (17A | to | 10.20V) | 85Ah |

Weight

Approx. 30.3kg(66.7Lbs.)

Internal Resistance (at 1KHz)

Approx. 2.9 mΩ

Maximum Discharge Current for

5 seconds: 1200A

Charging Methods at 25°C(77°F)

| | |
|----------------------------|-----------------|
| Maximum Charging Current : | 30A |
| Boost Charging Voltage | 14.10 to 14.40V |
| Boost Charge Time | 8-9Hr |
| Float Charging Voltage | 13.50 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)



Dimensions

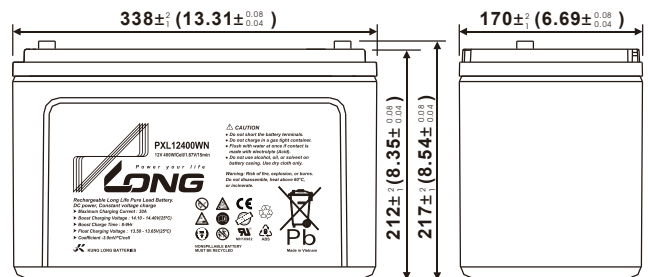
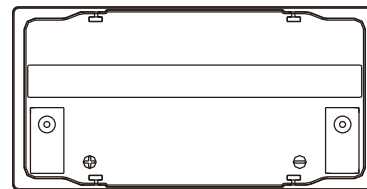
Length (L) 338±²_{0.04} (13.31±^{0.08}_{0.04})

Width (W) 170±²_{0.04} (6.69±^{0.08}_{0.04})

Height (H) 212±²_{0.04} (8.35±^{0.08}_{0.04})

Overall Height (HT) 217±²_{0.04} (8.54±^{0.08}_{0.04})

mm(inch)



Terminal

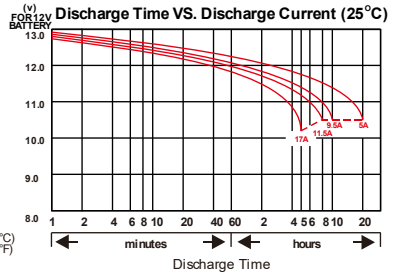
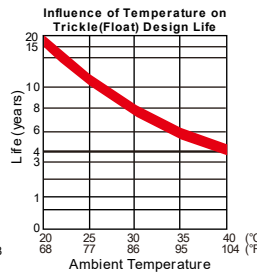
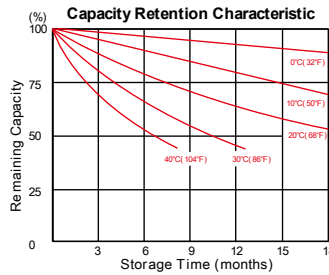
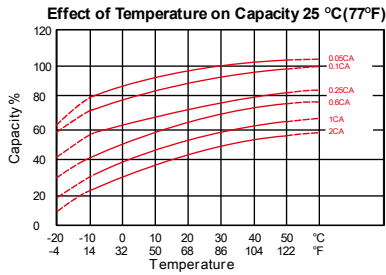
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Recommended torque value M6: 7 N-m (71 kgf-cm)

Maximum allowable torque value M6: 10 N-m (102 kgf-cm)

Design Life

15 years



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 | 525 | 598 | 647 | 682 | 707 | 717 | 725 |
| 8 | min | 459 | 514 | 548 | 571 | 586 | 594 | 600 |
| 10 | min | 398 | 454 | 480 | 491 | 495 | 498 | 501 |
| 15 | min | 328 | 350 | 370 | 388 | 400 | 402 | 403 |
| 20 | min | 274 | 293 | 306 | 316 | 324 | 331 | 335 |
| 30 | min | 210 | 224 | 233 | 238 | 241 | 242 | 244 |
| 45 | min | 157 | 166 | 173 | 177 | 180 | 183 | 186 |
| 60 | min | 120 | 128 | 134 | 135 | 137 | 137 | 138 |
| 90 | min | 92.3 | 93.2 | 94.0 | 94.7 | 95.1 | 95.3 | 95.4 |
| 120 | min | 71.1 | 72.1 | 72.7 | 73.1 | 73.4 | 73.7 | 73.9 |
| 180 | min | 47.9 | 49.0 | 49.8 | 50.4 | 50.7 | 50.9 | 51.0 |
| 240 | min | 38.6 | 39.9 | 40.7 | 41.4 | 41.7 | 41.9 | 42.0 |
| 300 | min | 34.2 | 35.2 | 36.2 | 36.4 | 36.5 | 36.7 | 36.8 |
| 480 | min | 22.3 | 24.2 | 25.5 | 26.0 | 26.1 | 26.2 | 26.4 |
| 600 | min | 19.2 | 20.1 | 20.8 | 21.3 | 21.6 | 21.9 | 22.0 |
| 1200 | min | 10.0 | 10.5 | 10.8 | 11.1 | 11.2 | 11.4 | 11.5 |

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 | 271 | 316 | 352 | 385 | 410 | 429 | 439 |
| 8 | min | 234 | 267 | 293 | 312 | 327 | 338 | 349 |
| 10 | min | 204 | 232 | 253 | 266 | 270 | 273 | 275 |
| 15 | min | 168 | 186 | 202 | 215 | 224 | 231 | 237 |
| 20 | min | 137 | 148 | 156 | 162 | 168 | 173 | 176 |
| 30 | min | 108 | 112 | 117 | 119 | 121 | 123 | 124 |
| 45 | min | 80.7 | 85.9 | 88.5 | 90.0 | 91.1 | 91.9 | 92.4 |
| 60 | min | 62.6 | 65.3 | 67.6 | 68.9 | 69.8 | 70.2 | 70.6 |
| 90 | min | 49.2 | 50.5 | 51.5 | 52.4 | 52.8 | 53.2 | 53.5 |
| 120 | min | 38.0 | 40.2 | 41.3 | 42.2 | 42.8 | 43.3 | 43.6 |
| 180 | min | 24.4 | 25.9 | 27.1 | 27.8 | 28.2 | 28.6 | 28.7 |
| 240 | min | 20.0 | 20.7 | 21.3 | 21.7 | 22.0 | 22.2 | 22.3 |
| 300 | min | 17.4 | 17.9 | 18.3 | 18.7 | 18.8 | 18.9 | 19.0 |
| 480 | min | 11.7 | 12.3 | 12.7 | 12.8 | 12.9 | 12.9 | 13.0 |
| 600 | min | 9.70 | 9.86 | 10.0 | 10.2 | 10.3 | 10.4 | 10.5 |
| 1200 | min | 5.18 | 5.34 | 5.50 | 5.58 | 5.61 | 5.63 | 5.64 |

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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