

### 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. 32.8kg(72.2Lbs.)

#### Internal Resistance (at 1KHz)

Approx. 3.3 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

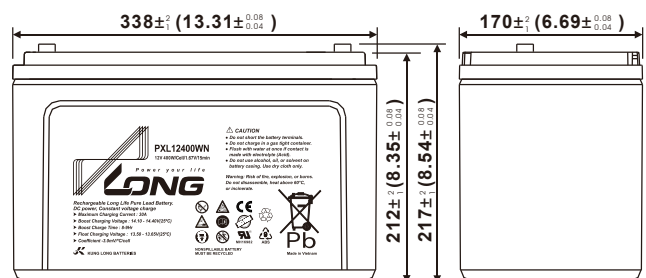
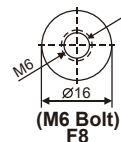
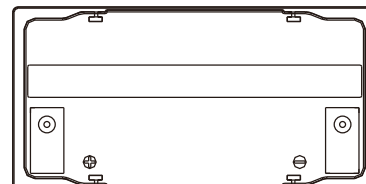
Length (L)  $338 \pm 1$  (13.31  $\pm$  0.08 / 0.04)

Width (W)  $170 \pm 1$  (6.69  $\pm$  0.08 / 0.04)

Height (H)  $212 \pm 1$  (8.35  $\pm$  0.08 / 0.04)

Overall Height (HT)  $217 \pm 1$  (8.54  $\pm$  0.08 / 0.04)

mm(inch)



#### Terminal

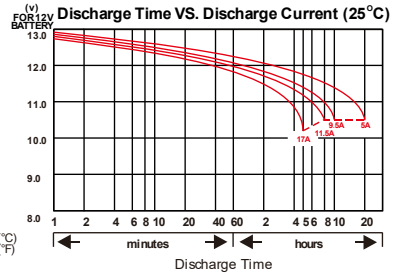
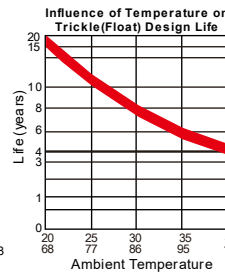
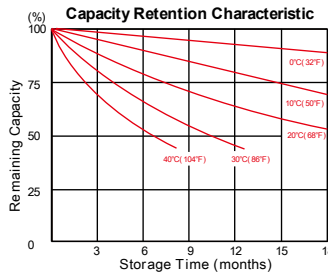
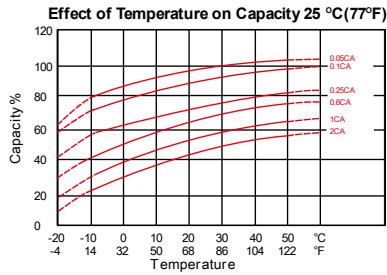
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Recommended torque value M6: 7 N-m (71 kgf-cm)

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 |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Time        |     |       |       |       |       |       |       |       |
| 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 |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| Time        |     |       |       |       |       |       |       |       |
| 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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