

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Capacity

| | | | | |
|--------------|-------|----|---------|--------|
| 10 hour rate | (10A | to | 10.80V) | 100Ah |
| 5 hour rate | (17A | to | 10.20V) | 85Ah |
| 1 hour rate | (60A | to | 9.60V) | 60Ah |
| 1 C | (100A | to | 9.60V) | 63.3Ah |

Weight

Approx. 34.5kg(75.9Lbs.)

Internal Resistance (at 1KHz)

Approx. 5 mΩ

Maximum Discharge Current for

5 seconds: 1200A

Charging Methods at 25°C(77°F)

Cycle use:
 Charging Voltage 14.4 to 15.0V
 Coefficient -5.0mV/°C/cell
 Maximum Charging Current : 30A
 Standby use:
 Float Charging Voltage 13.5 to 13.8V
 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 | 94% |
| 6 month | 85% |

Case Material

ABS UL94 HB
 Option: Flammability resistance of (UL94 V-0)



⚡ Dimensions

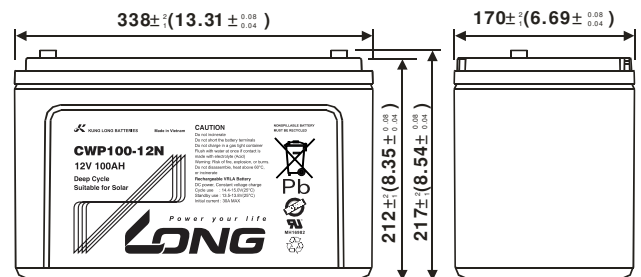
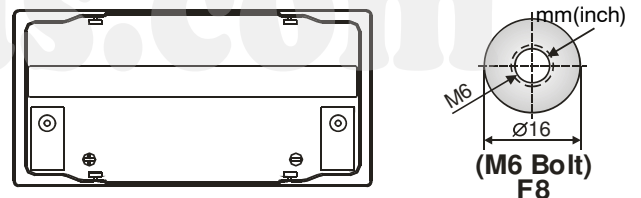
| | |
|---------------------|--------------------------|
| Length (L) | 338±2-1(13.31±0.08-0.04) |
| Width (W) | 170±2-1(6.69±0.08-0.04) |
| Height (H) | 212±2-1(8.35±0.08-0.04) |
| Overall Height (HT) | 217±2-1(8.54±0.08-0.04) |

Terminal

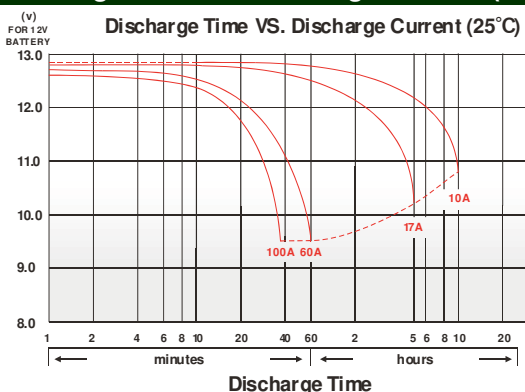
F8

Description of torque value of hard ware for the terminals:

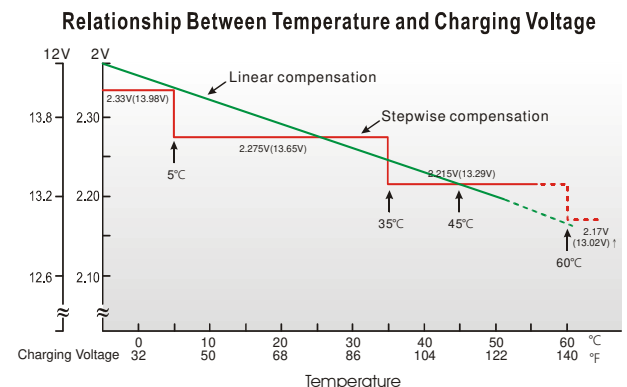
Recommended torque value M6: 7 N-m (71 kgf-cm)
 Maximum allowable torque value M6: 10 N-m (102kgf-cm)



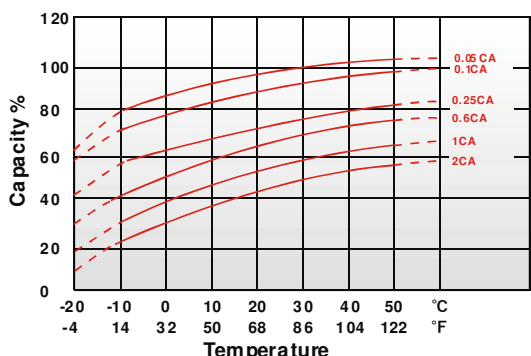
Discharge Time VS. Discharge Current (25°C)



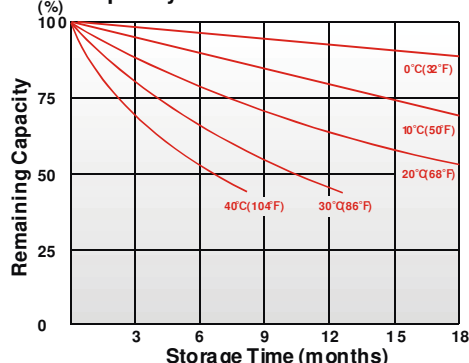
Relationship Between Temperature and Charging Voltage



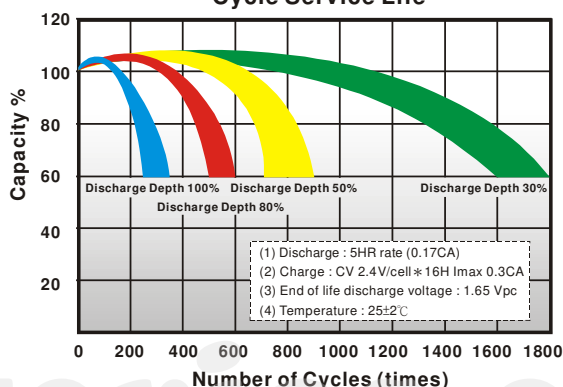
Effect of Temperature on Capacity 25°C (77°F)



Capacity Retention Characteristic



Cycle Service 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 |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 10 | min | 349 | 379 | 406 | 430 | 441 | 454 | 476 |
| 15 | min | 278 | 300 | 319 | 337 | 347 | 355 | 369 |
| 30 | min | 163 | 174 | 183 | 190 | 195 | 199 | 205 |
| 60 | min | 113 | 117 | 120 | 123 | 124 | 125 | 127 |
| 120 | min | 66.8 | 69.5 | 71.7 | 73.7 | 75.3 | 76.5 | 77.7 |
| 180 | min | 47.3 | 49.3 | 51.3 | 53.2 | 54.3 | 55.2 | 55.8 |
| 240 | min | 35.7 | 37.7 | 39.3 | 41.0 | 42.3 | 43.2 | 44.0 |
| 300 | min | 31.5 | 32.7 | 33.7 | 34.5 | 35.3 | 36.0 | 36.8 |
| 600 | min | 17.8 | 18.8 | 19.7 | 20.3 | 20.8 | 21.3 | 21.7 |
| 1200 | min | 10.4 | 10.8 | 11.1 | 11.3 | 11.3 | 11.3 | 11.5 |

- 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 |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 10 | min | 167 | 195 | 216 | 233 | 240 | 249 | 264 |
| 15 | min | 124 | 144 | 164 | 175 | 182 | 191 | 201 |
| 30 | min | 74.9 | 83.6 | 93.9 | 102 | 107 | 111 | 115 |
| 60 | min | 45.7 | 50.7 | 56.8 | 59.2 | 63.2 | 64.3 | 65.2 |
| 120 | min | 27.1 | 29.8 | 32.9 | 35.8 | 38.2 | 40.3 | 42.1 |
| 180 | min | 22.6 | 23.8 | 24.7 | 25.8 | 26.2 | 26.6 | 27.3 |
| 240 | min | 18.4 | 19.2 | 19.9 | 20.4 | 20.7 | 21.2 | 21.7 |
| 300 | min | 16.3 | 17.1 | 17.6 | 17.8 | 17.9 | 18.0 | 18.2 |
| 600 | min | 9.72 | 10.1 | 10.3 | 10.5 | 10.6 | 10.7 | 10.8 |
| 1200 | min | 5.10 | 5.27 | 5.39 | 5.47 | 5.54 | 5.59 | 5.63 |

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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