

Specifications

Nominal Voltage(V)

12V

Nominal Capacity

| | | |
|--------------|-------------------|---------|
| 20 hour rate | (2.5A to 10.50V) | 50Ah |
| 10 hour rate | (4.75A to 10.50V) | 47.5Ah |
| 5 hour rate | (8.5A to 10.20V) | 42.5Ah |
| 1 C | (50A to 9.60V) | 28.33Ah |
| 3 C | (150A to 9.60V) | 20Ah |

Weight

Approx. 15.0kg(33.0Lbs.)

Internal Resistance (at 1KHz)

Approx. 5 mΩ

Maximum Discharge Current for

5 seconds: 600A

Charging Methods at 25°C(77°F)

| | |
|----------------------------|----------------|
| Cycle use: | |
| Charging Voltage | 14.4 to 15.0V |
| Coefficient | -5.0mV/°C/cell |
| Maximum Charging Current : | 15A |
| 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 | 97% |
| 3 month | 92% |
| 6 month | 85% |

Case Material

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

Design Life

EUROBAT(20°C): 3-5 YEARS STANDARD COMMERCIAL

Terminal

F4



Dimensions

Length (L)

$199 \pm 1^3 (7.83 \pm 0.12)$

Width (W)

$166 \pm 1^3 (6.54 \pm 0.12)$

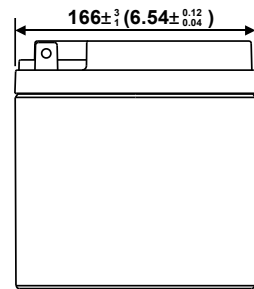
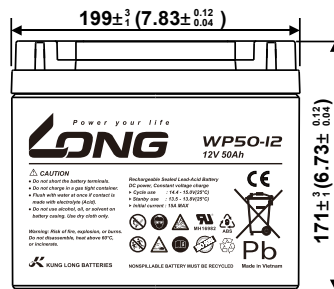
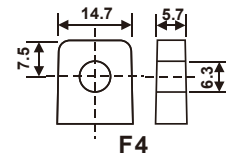
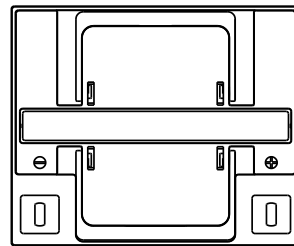
Height (H)

$171 \pm 1^3 (6.73 \pm 0.12)$

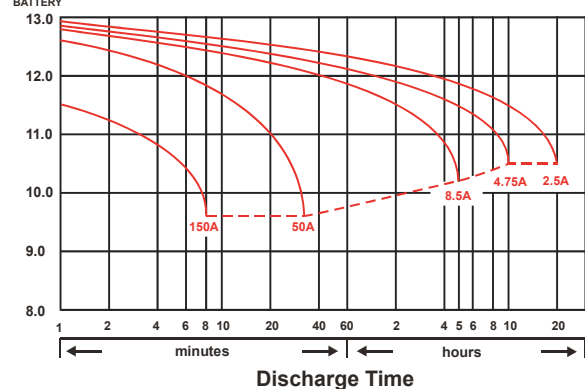
Overall Height (HT)

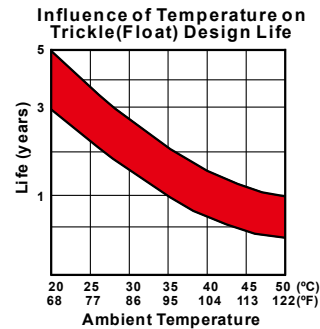
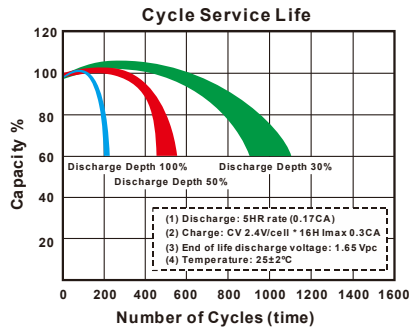
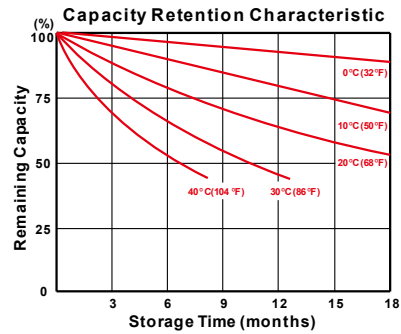
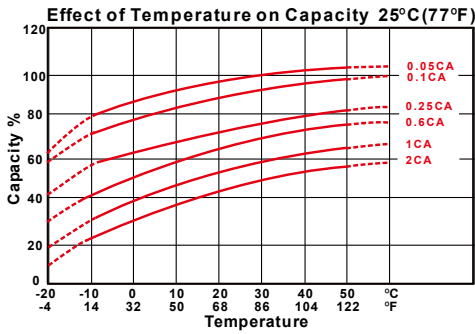
$171 \pm 1^3 (6.73 \pm 0.12)$

mm(inch)



(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)





- 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 | 240 | 288 | 322 | 345 | 350 | 356 | 361 |
| 10 | min | 171 | 203 | 223 | 233 | 237 | 241 | 246 |
| 15 | min | 126 | 146 | 160 | 167 | 170 | 172 | 175 |
| 30 | min | 78.0 | 89.8 | 97.2 | 100 | 102 | 103 | 104 |
| 60 | min | 53.7 | 56.5 | 58.2 | 59.5 | 60.0 | 60.7 | 61.2 |
| 120 | min | 29.2 | 32.0 | 33.3 | 34.5 | 34.8 | 35.3 | 35.8 |
| 180 | min | 20.8 | 22.7 | 23.8 | 24.7 | 25.0 | 25.3 | 25.7 |
| 240 | min | 17.2 | 18.3 | 19.0 | 19.7 | 19.8 | 20.2 | 20.5 |
| 300 | min | 15.9 | 16.6 | 17.0 | 17.3 | 17.5 | 17.7 | 17.8 |
| 600 | min | 8.62 | 9.10 | 9.38 | 9.57 | 9.62 | 9.68 | 9.77 |
| 1200 | min | 4.58 | 4.87 | 5.05 | 5.17 | 5.20 | 5.25 | 5.30 |

- 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 | 139 | 166 | 185 | 199 | 206 | 210 | 214 |
| 10 | min | 88.5 | 106 | 117 | 125 | 128 | 131 | 134 |
| 15 | min | 77.8 | 84.5 | 87.6 | 90.2 | 90.9 | 91.8 | 92.9 |
| 30 | min | 45.4 | 50.7 | 52.8 | 54.4 | 54.9 | 55.5 | 56.2 |
| 60 | min | 26.0 | 28.8 | 29.9 | 30.6 | 30.8 | 31.1 | 31.4 |
| 120 | min | 15.1 | 16.2 | 16.8 | 17.3 | 17.5 | 17.7 | 17.9 |
| 180 | min | 11.0 | 11.7 | 12.1 | 12.4 | 12.5 | 12.6 | 12.7 |
| 240 | min | 8.96 | 9.44 | 9.70 | 9.89 | 9.96 | 10.1 | 10.2 |
| 300 | min | 7.85 | 8.26 | 8.50 | 8.67 | 8.73 | 8.80 | 8.87 |
| 600 | min | 4.41 | 4.65 | 4.76 | 4.82 | 4.84 | 4.87 | 4.91 |
| 1200 | min | 2.32 | 2.44 | 2.50 | 2.55 | 2.57 | 2.59 | 2.61 |

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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