

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Capacity

| | | |
|--------------|--------------------|--------|
| 20 hour rate | (0.15A to 10.50V) | 3Ah |
| 10 hour rate | (0.285A to 10.50V) | 2.85Ah |
| 5 hour rate | (0.51A to 10.20V) | 2.55Ah |
| 1 C | (3A to 9.60V) | 1.6Ah |
| 3 C | (9A to 9.60V) | 1.05Ah |

Weight

Approx. 1.3kg(2.86Lbs.)

Internal Resistance (at 1KHz)

Approx. 45 mΩ

Maximum Discharge Current for

5 seconds: 45A

Charging Methods at 25°C(77°F)

| | |
|----------------------------|----------------|
| Cycle use: | |
| Charging Voltage | 14.4 to 15.0V |
| Coefficient | -5.0mV/°C/cell |
| Maximum Charging Current : | 0.9A |
| 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

3-5 Years.

Terminal

F1 or F2 (Faston Tab 187 or 250)



⚡ Dimensions

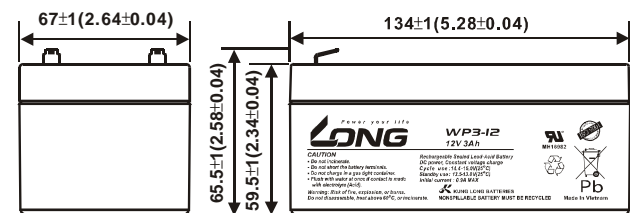
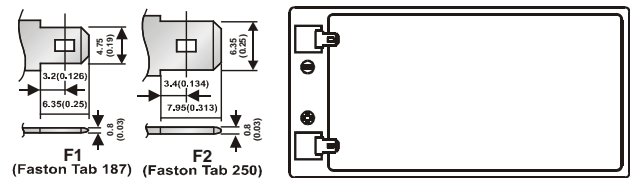
Length (L) 134±1 (5.28±0.04)

Width (W) 67±1 (2.64±0.04)

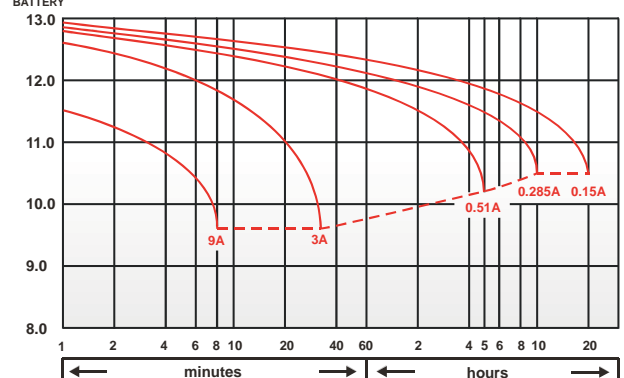
Height (H) 59.5±1 (2.34±0.04)

Overall Height (HT) 65.5±1 (2.58±0.04)

mm(inch)

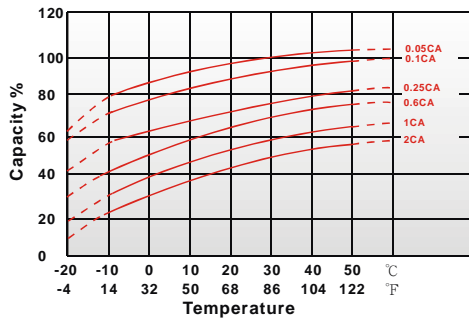


(v) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)

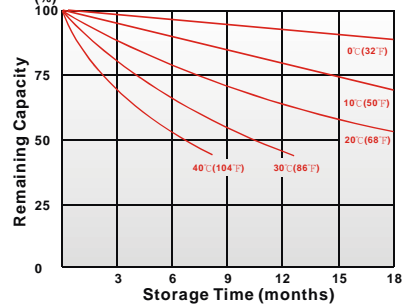


Discharge Time

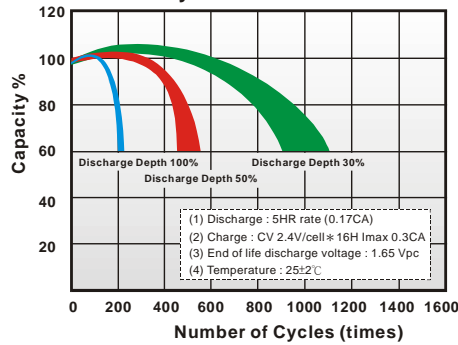
Effect of Temperature on Capacity 25°C (77°F)



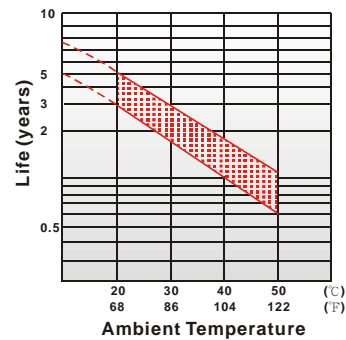
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



- 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 | 15.7 | 17.7 | 19.0 | 20.2 | 20.8 | 21.4 | 22.1 |
| 10 | min | 11.4 | 12.4 | 13.3 | 14.0 | 14.4 | 14.7 | 15.0 |
| 15 | min | 8.63 | 9.61 | 10.1 | 10.6 | 10.9 | 11.2 | 11.5 |
| 30 | min | 5.03 | 5.51 | 5.82 | 6.18 | 6.32 | 6.43 | 6.53 |
| 60 | min | 2.88 | 3.20 | 3.43 | 3.63 | 3.73 | 3.79 | 3.88 |
| 120 | min | 1.70 | 1.85 | 1.98 | 2.12 | 2.18 | 2.25 | 2.35 |
| 180 | min | 1.27 | 1.46 | 1.56 | 1.63 | 1.66 | 1.70 | 1.77 |
| 240 | min | 0.968 | 1.09 | 1.17 | 1.21 | 1.23 | 1.27 | 1.33 |
| 300 | min | 0.823 | 0.926 | 0.994 | 1.03 | 1.05 | 1.07 | 1.10 |
| 600 | min | 0.547 | 0.582 | 0.597 | 0.608 | 0.615 | 0.620 | 0.628 |
| 1200 | min | 0.299 | 0.309 | 0.317 | 0.320 | 0.322 | 0.324 | 0.330 |

- 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 | 7.95 | 9.24 | 10.3 | 11.1 | 11.5 | 12.0 | 12.6 |
| 10 | min | 5.87 | 6.52 | 7.07 | 7.46 | 7.62 | 7.79 | 8.08 |
| 15 | min | 4.49 | 5.03 | 5.37 | 5.71 | 5.86 | 6.02 | 6.23 |
| 30 | min | 2.56 | 2.87 | 3.03 | 3.10 | 3.12 | 3.14 | 3.17 |
| 60 | min | 1.54 | 1.72 | 1.81 | 1.88 | 1.92 | 1.94 | 1.99 |
| 120 | min | 0.945 | 0.993 | 1.04 | 1.08 | 1.10 | 1.12 | 1.15 |
| 180 | min | 0.679 | 0.718 | 0.752 | 0.786 | 0.807 | 0.826 | 0.861 |
| 240 | min | 0.556 | 0.581 | 0.604 | 0.625 | 0.634 | 0.646 | 0.663 |
| 300 | min | 0.472 | 0.493 | 0.511 | 0.526 | 0.533 | 0.542 | 0.554 |
| 600 | min | 0.273 | 0.289 | 0.301 | 0.306 | 0.308 | 0.311 | 0.313 |
| 1200 | min | 0.147 | 0.154 | 0.158 | 0.161 | 0.163 | 0.165 | 0.167 |

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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