

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Capacity

| | | | | |
|--------------|--------|----|---------|--------|
| 20 hour rate | (0.5A | to | 10.50V) | 10Ah |
| 10 hour rate | (0.95A | to | 10.50V) | 9.5Ah |
| 5 hour rate | (1.7A | to | 10.20V) | 8.5Ah |
| 1 C | (10A | to | 9.60V) | 5.67Ah |
| 3 C | (30A | to | 9.60V) | 4Ah |

Weight

Approx. 3.29kg(7.24Lbs.)

Internal Resistance (at 1KHz)

Approx. 11 mΩ

Maximum Discharge Current for

5 seconds: 150A

Charging Methods at 25°C(77°F)

| | |
|----------------------------|----------------|
| Cycle use: | |
| Charging Voltage | 14.4 to 15.0V |
| Coefficient | -5.0mV/°C/cell |
| Maximum Charging Current : | 3A |
| 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 | 92% |
| 3 month | 90% |
| 6 month | 80% |

Case Material

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

Design Life

3-5 Years.

Terminal

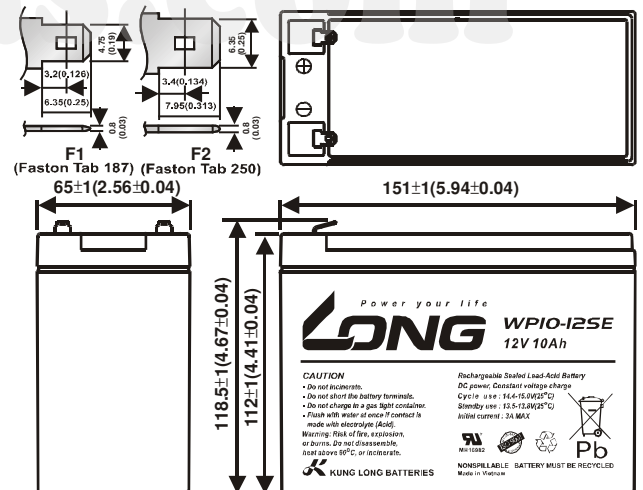
F1 or F2 (Faston Tab 187 or 250)



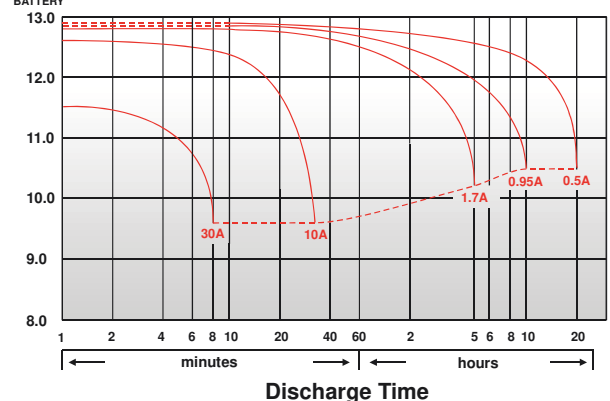
⚡ Dimensions

| | |
|---------------------|---------------------|
| Length (L) | 151±1 (5.94±0.04) |
| Width (W) | 65±1 (2.56±0.04) |
| Height (H) | 112±1 (4.41±0.04) |
| Overall Height (HT) | 118.5±1 (4.67±0.04) |

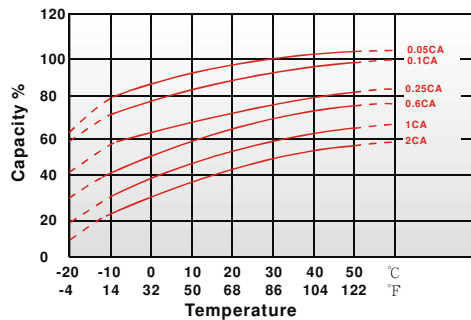
mm(inch)



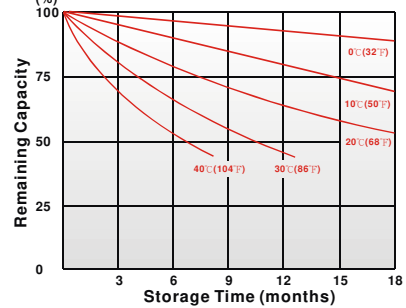
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



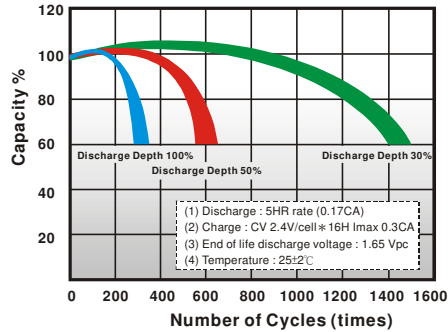
Effect of Temperature on Capacity 25°C(77°F)



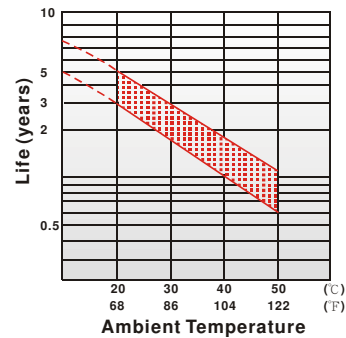
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C(77°F)

| Time | End Voltage | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 5 | min | 49.7 | 57.2 | 60.2 | 62.7 | 63.7 | 64.7 | 65.8 |
| 10 | min | 37.7 | 41.2 | 43.0 | 44.3 | 44.8 | 45.5 | 46.3 |
| 15 | min | 29.2 | 31.3 | 32.7 | 33.7 | 34.2 | 34.7 | 35.2 |
| 30 | min | 18.3 | 19.2 | 19.7 | 20.0 | 20.3 | 20.5 | 20.7 |
| 60 | min | 10.4 | 11.2 | 11.6 | 11.9 | 12.0 | 12.1 | 12.2 |
| 120 | min | 5.88 | 6.43 | 6.72 | 6.92 | 7.00 | 7.10 | 7.20 |
| 180 | min | 4.57 | 4.95 | 5.20 | 5.38 | 5.43 | 5.52 | 5.60 |
| 240 | min | 3.78 | 3.92 | 4.02 | 4.10 | 4.13 | 4.18 | 4.23 |
| 300 | min | 3.32 | 3.42 | 3.48 | 3.53 | 3.57 | 3.60 | 3.63 |
| 600 | min | 1.92 | 1.97 | 2.02 | 2.07 | 2.08 | 2.10 | 2.13 |
| 1200 | min | 1.06 | 1.09 | 1.11 | 1.15 | 1.15 | 1.16 | 1.17 |

- 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 |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 5 | min | 24.6 | 29.3 | 32.7 | 34.1 | 34.9 | 35.6 | 36.1 |
| 10 | min | 21.4 | 24.1 | 25.6 | 26.7 | 27.1 | 27.6 | 28.3 |
| 15 | min | 15.6 | 17.2 | 18.4 | 19.1 | 19.5 | 19.9 | 20.4 |
| 30 | min | 10.7 | 11.3 | 11.8 | 12.2 | 12.4 | 12.6 | 12.8 |
| 60 | min | 5.69 | 6.03 | 6.26 | 6.45 | 6.58 | 6.63 | 6.69 |
| 120 | min | 3.24 | 3.39 | 3.48 | 3.56 | 3.59 | 3.62 | 3.67 |
| 180 | min | 2.55 | 2.63 | 2.68 | 2.72 | 2.74 | 2.76 | 2.79 |
| 240 | min | 1.96 | 2.01 | 2.05 | 2.08 | 2.09 | 2.11 | 2.12 |
| 300 | min | 1.69 | 1.72 | 1.74 | 1.76 | 1.77 | 1.78 | 1.79 |
| 600 | min | 0.974 | 1.00 | 1.02 | 1.04 | 1.05 | 1.06 | 1.07 |
| 1200 | min | 0.525 | 0.527 | 0.532 | 0.536 | 0.538 | 0.541 | 0.544 |

All data on the spec. sheet is an average value:

The tolerance range : X<6min(+15%~-15%), 6min ≤ X < 60min(+12%~-12%), 10min ≤ X < 60min(+8%~-8%), X ≥ 60min(+5%~-5%)

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