

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Capacity

| | | |
|--------------|--------------------|--------|
| 20 hour rate | (0.25 to 10.50V) | 5Ah |
| 10 hour rate | (0.475A to 10.50V) | 4.75Ah |
| 5 hour rate | (0.85A to 10.20V) | 4.25Ah |
| 1 C | (5A to 9.60V) | 3.17Ah |
| 3 C | (15A to 9.60V) | 2Ah |

Weight

Approx. 1.93kg(4.25Lbs.)

Internal Resistance (at 1KHz)

Approx. 19 mΩ

Maximum Discharge Current for

5 seconds: 75A

Charging Methods at 25°C(77°F)

| | |
|----------------------------|---------------|
| Cycle use: | |
| Charging Voltage | 14.4 to 15.0V |
| Coefficient -5.0mV/°C/cell | |
| Maximum Charging Current : | 1.5A |
| 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

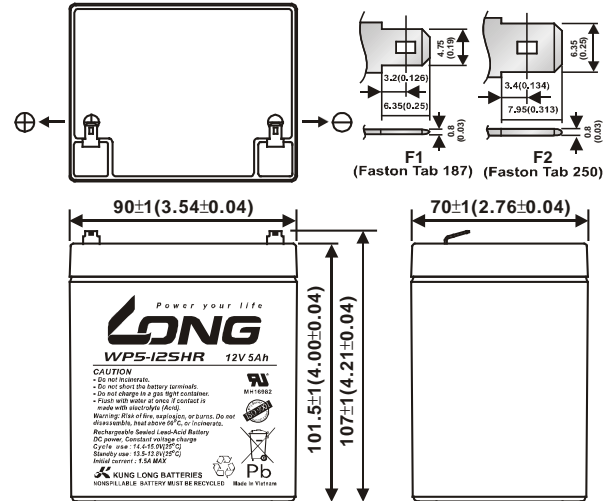
Length (L) 90±1 (3.54±0.04)

Width (W) 70±1 (2.76±0.04)

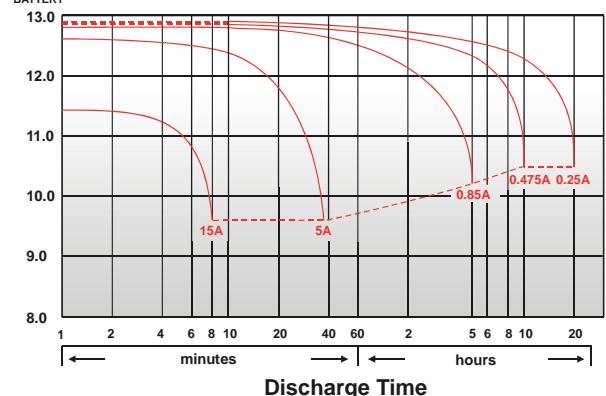
Height (H) 101.5±1 (4.00±0.04)

Overall Height (HT) 107±1 (4.21±0.04)

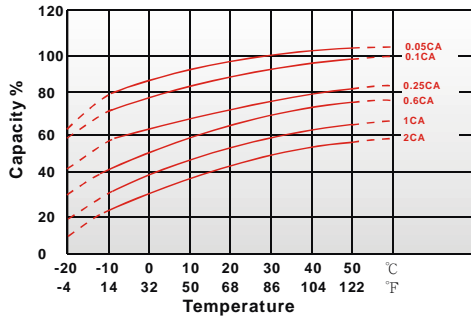
mm(inch)



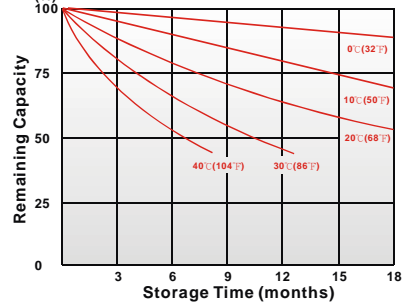
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



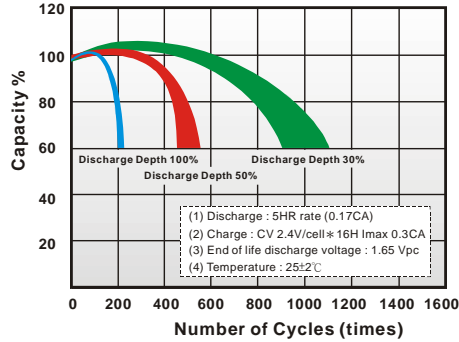
Effect of Temperature on Capacity 25°C (77°F)



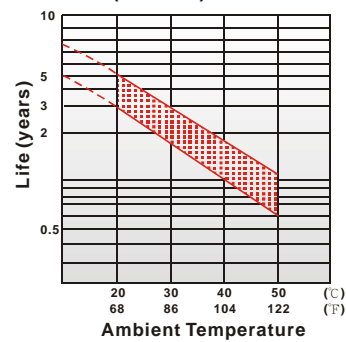
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



- PERFORMANCE DATA

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

| End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| 5 | min | 37.1 | 39.8 | 42.8 | 45.7 | 46.8 | 48.0 | 49.3 |
| 10 | min | 26.2 | 28.3 | 29.8 | 31.2 | 31.5 | 32.2 | 33.0 |
| 15 | min | 22.2 | 23.7 | 24.3 | 24.7 | 24.8 | 25.0 | 25.1 |
| 30 | min | 12.0 | 12.7 | 13.1 | 13.3 | 13.4 | 13.5 | 13.6 |
| 60 | min | 5.97 | 6.45 | 6.70 | 6.93 | 7.05 | 7.15 | 7.28 |
| 120 | min | 3.15 | 3.63 | 3.85 | 3.98 | 4.03 | 4.10 | 4.20 |
| 180 | min | 2.43 | 2.65 | 2.85 | 3.03 | 3.10 | 3.15 | 3.25 |
| 240 | min | 1.97 | 2.18 | 2.30 | 2.37 | 2.40 | 2.43 | 2.48 |
| 300 | min | 1.77 | 1.88 | 1.98 | 2.03 | 2.05 | 2.07 | 2.10 |
| 600 | min | 1.02 | 1.10 | 1.16 | 1.19 | 1.19 | 1.20 | 1.22 |
| 1200 | min | 0.532 | 0.575 | 0.607 | 0.618 | 0.623 | 0.628 | 0.637 |

- 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 |
|-------------|-----|-------|-------|-------|-------|-------|-------|-------|
| 5 | min | 18.7 | 22.8 | 25.2 | 27.1 | 27.8 | 28.4 | 29.3 |
| 10 | min | 13.8 | 15.0 | 15.9 | 16.7 | 16.9 | 17.3 | 17.8 |
| 15 | min | 10.6 | 11.3 | 11.7 | 12.0 | 12.2 | 12.4 | 12.6 |
| 30 | min | 5.98 | 6.31 | 6.49 | 6.63 | 6.68 | 6.74 | 6.85 |
| 60 | min | 3.09 | 3.34 | 3.48 | 3.59 | 3.62 | 3.67 | 3.74 |
| 120 | min | 1.72 | 1.85 | 1.92 | 1.98 | 2.01 | 2.03 | 2.06 |
| 180 | min | 1.37 | 1.46 | 1.51 | 1.55 | 1.57 | 1.59 | 1.61 |
| 240 | min | 0.974 | 1.05 | 1.09 | 1.13 | 1.14 | 1.16 | 1.18 |
| 300 | min | 0.863 | 0.931 | 0.965 | 0.986 | 0.998 | 1.01 | 1.03 |
| 600 | min | 0.490 | 0.532 | 0.551 | 0.574 | 0.577 | 0.582 | 0.590 |
| 1200 | min | 0.257 | 0.291 | 0.297 | 0.302 | 0.304 | 0.307 | 0.311 |

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

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

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