

Trickle use

Specifications

Nominal Voltage(V)

12V

Nominal Power

15 mins rate: 35W/cell to 1.60V/cell

Nominal Capacity

| | | |
|-------------|--------------------|---------|
| 5 hour rate | (1.445A to 10.20V) | 7.225Ah |
| 1C | (8.5A to 9.60V) | 5.28Ah |
| 3C | (25.5A to 9.60V) | 3.4Ah |

Weight

Approx. 2.7kg(5.94Lbs.)

Internal Resistance (at 1KHz)

Approx. 14 mΩ

Maximum Discharge Current for

5 seconds: 127.5A

Charging Methods at 25°C(77°F)

| | |
|----------------------------|----------------|
| Maximum Charging Current : | 2.55A |
| 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 & Standard

Expected Trickle Design Life: 6-9 years at 20°C according to Eurobat.

Terminal

F2 (Faston Tab 250)

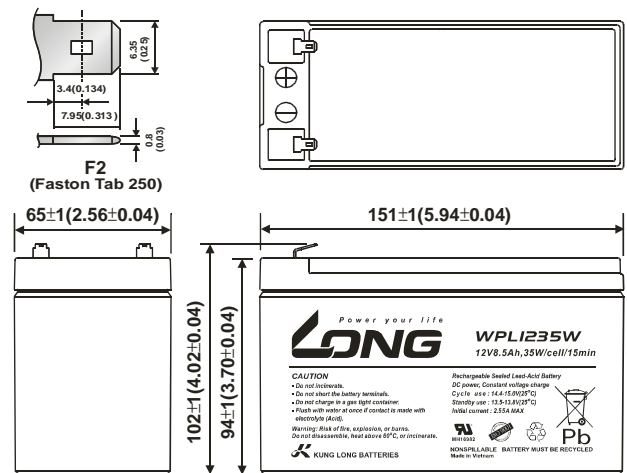


Dimensions

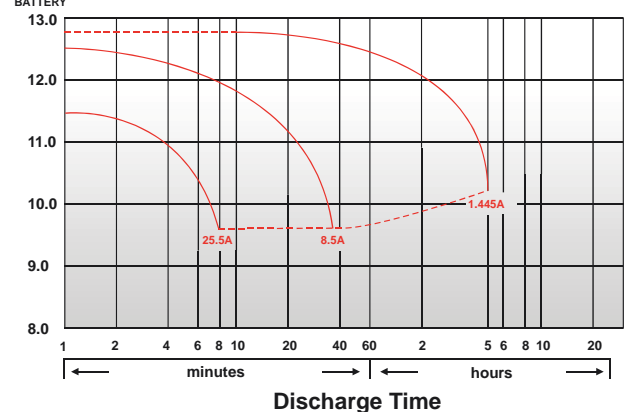
| | |
|---------------------|-------------------|
| Length (L) | 151±1 (5.94±0.04) |
| Width (W) | 65±1 (2.56±0.04) |
| Height (H) | 94±1 (3.70±0.04) |
| Overall Height (HT) | 102±1 (4.02±0.04) |

Description of torque value of hard ware for the terminals:

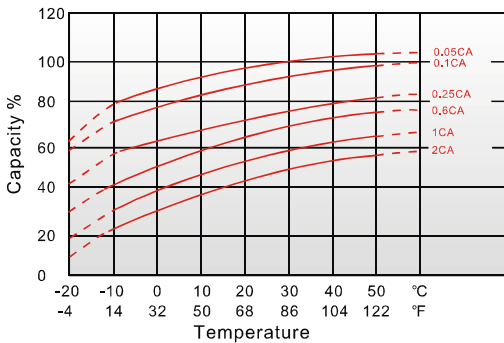
mm(inch)



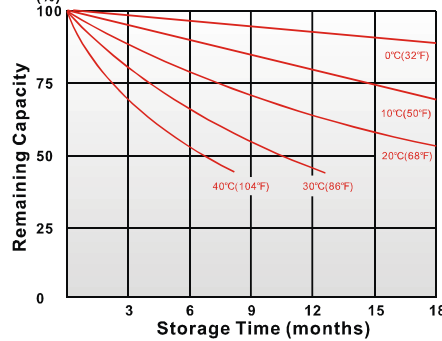
(v) Discharge Time VS. Discharge Current (25°C)



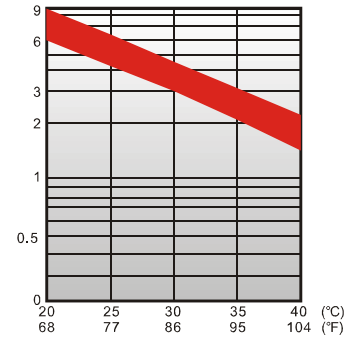
Effect of Temperature on Capacity 25°C(77°F)



Capacity Retention Characteristic



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 | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|
| Time | | | | | | | |
| 5 | min | 55.8 | 59.7 | 64.1 | 67.1 | 70.4 | 73.8 |
| 10 | min | 35.8 | 38.3 | 41.1 | 43.1 | 45.2 | 47.3 |
| 15 | min | 27.4 | 28.7 | 30.3 | 31.7 | 33.1 | 34.5 |
| 30 | min | 15.7 | 16.4 | 17.3 | 18.2 | 19.0 | 19.8 |
| 60 | min | 9.76 | 10.1 | 10.3 | 10.4 | 10.5 | 10.7 |
| 120 | min | 5.15 | 5.32 | 5.44 | 5.50 | 5.56 | 5.67 |
| 180 | min | 4.15 | 4.29 | 4.38 | 4.43 | 4.48 | 4.57 |
| 240 | min | 3.33 | 3.44 | 3.52 | 3.56 | 3.60 | 3.65 |
| 300 | min | 2.83 | 2.93 | 2.99 | 3.02 | 3.05 | 3.06 |
| 600 | min | 1.59 | 1.64 | 1.68 | 1.69 | 1.70 | 1.71 |
| 1200 | min | 0.836 | 0.865 | 0.884 | 0.893 | 0.903 | 0.910 |

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

| End Voltage | | 1.85V | 1.80V | 1.75V | 1.70V | 1.65V | 1.60V |
|-------------|-----|-------|-------|-------|-------|-------|-------|
| Time | | | | | | | |
| 5 | min | 29.9 | 32.0 | 34.3 | 36.0 | 37.7 | 39.5 |
| 10 | min | 18.7 | 20.0 | 21.5 | 22.5 | 23.6 | 24.7 |
| 15 | min | 14.0 | 14.6 | 15.5 | 16.2 | 16.9 | 17.6 |
| 30 | min | 7.92 | 8.28 | 8.75 | 9.16 | 9.57 | 9.98 |
| 60 | min | 4.90 | 5.07 | 5.18 | 5.24 | 5.27 | 5.29 |
| 120 | min | 2.57 | 2.66 | 2.72 | 2.75 | 2.77 | 2.78 |
| 180 | min | 2.06 | 2.13 | 2.18 | 2.21 | 2.22 | 2.23 |
| 240 | min | 1.65 | 1.71 | 1.75 | 1.76 | 1.77 | 1.78 |
| 300 | min | 1.40 | 1.45 | 1.48 | 1.50 | 1.51 | 1.52 |
| 600 | min | 0.784 | 0.811 | 0.829 | 0.838 | 0.842 | 0.847 |
| 1200 | min | 0.413 | 0.427 | 0.436 | 0.441 | 0.443 | 0.446 |

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%)

080519-1J