

WP7.2-12A 12Volt 7.2Ah

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

| | | |
|--------------|--------------------|--------|
| 20 hour rate | (0.36A to 10.50V) | 7.2Ah |
| 10 hour rate | (0.684A to 10.50V) | 6.84Ah |
| 5 hour rate | (1.224A to 10.20V) | 6.12Ah |
| 1 C | (7.2A to 9.60V) | 4.08Ah |
| 3 C | (21.6A to 9.60V) | 2.88Ah |

Weight **Approx. 2.35kg(5.17Lbs.)**

Internal Resistance (at 1KHz) **Approx. 19 mΩ**

Maximum Discharge Current for

5 seconds: **108A**

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient **-5.0mV/°C/cell**

Maximum Charging Current : **2.16A**

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**

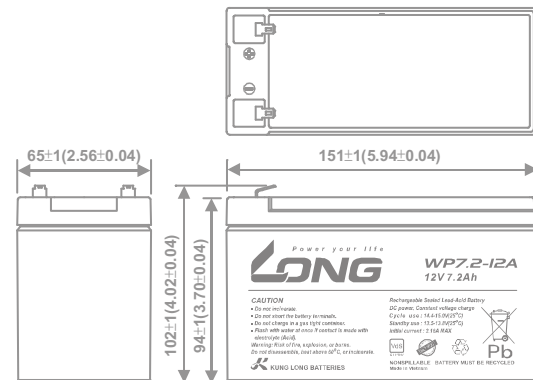
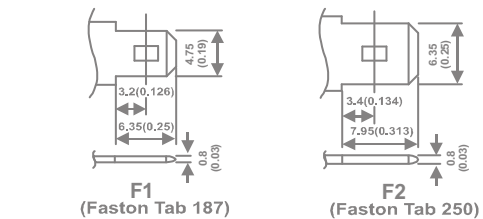
(Option: UL94 HB & UL94 V-0 flame retardant)

Terminal **F1 or F2 (Faston Tab 187 or 250)**

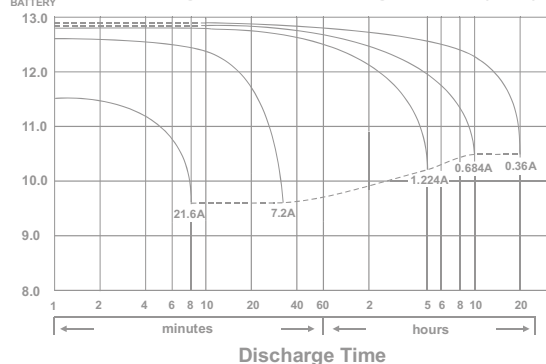


Dimensions

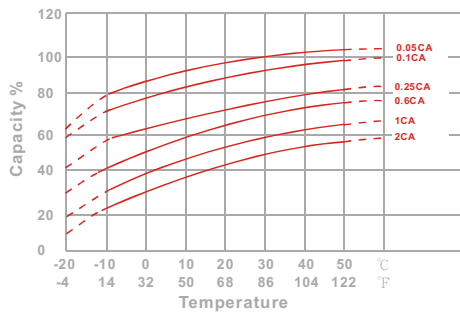
mm(inch)



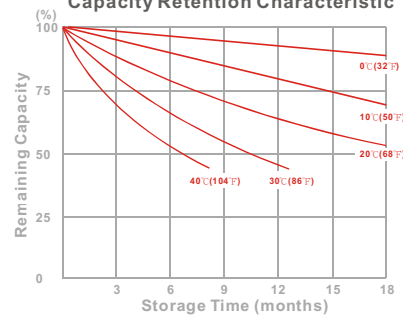
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



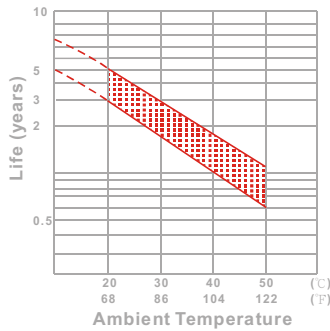
Effect of Temperature on Capacity 25°C(77°F)



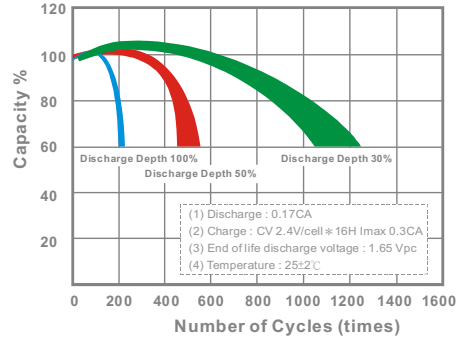
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle 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 | 270 | 297 | 318 | 336 | 342 | 348 | 363 |
| 10 | min | 201 | 220 | 232 | 233 | 236 | 238 | 245 |
| 15 | min | 150 | 162 | 171 | 177 | 179 | 181 | 184 |
| 30 | min | 94.1 | 99.0 | 102 | 105 | 106 | 107 | 109 |
| 60 | min | 59.5 | 61.1 | 62.3 | 63.3 | 63.4 | 63.8 | 64.5 |
| 120 | min | 32.2 | 33.2 | 33.9 | 34.5 | 34.6 | 35.0 | 35.3 |
| 180 | min | 22.9 | 23.6 | 24.3 | 24.8 | 25.0 | 25.3 | 25.6 |
| 240 | min | 17.7 | 18.5 | 19.1 | 19.4 | 19.5 | 19.7 | 19.9 |
| 300 | min | 14.8 | 15.4 | 15.9 | 16.3 | 16.5 | 16.6 | 16.8 |
| 600 | min | 8.29 | 8.63 | 9.14 | 9.22 | 9.25 | 9.32 | 9.44 |
| 1200 | min | 4.37 | 4.56 | 4.80 | 4.85 | 4.87 | 4.90 | 4.96 |

- 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 | 24.8 | 27.7 | 30.1 | 32.2 | 33.0 | 33.8 | 35.6 |
| 10 | min | 17.5 | 19.2 | 20.4 | 20.8 | 21.0 | 21.3 | 22.0 |
| 15 | min | 14.2 | 15.1 | 15.6 | 15.9 | 16.0 | 16.2 | 16.5 |
| 30 | min | 8.61 | 8.92 | 9.14 | 9.30 | 9.38 | 9.45 | 9.61 |
| 60 | min | 4.96 | 5.11 | 5.23 | 5.34 | 5.37 | 5.40 | 5.46 |
| 120 | min | 2.62 | 2.71 | 2.78 | 2.84 | 2.86 | 2.89 | 2.92 |
| 180 | min | 1.83 | 1.89 | 1.95 | 2.00 | 2.02 | 2.04 | 2.07 |
| 240 | min | 1.42 | 1.49 | 1.54 | 1.57 | 1.58 | 1.59 | 1.61 |
| 300 | min | 1.19 | 1.24 | 1.31 | 1.33 | 1.34 | 1.35 | 1.36 |
| 600 | min | 0.654 | 0.683 | 0.724 | 0.732 | 0.736 | 0.741 | 0.751 |
| 1200 | min | 0.339 | 0.355 | 0.375 | 0.380 | 0.382 | 0.385 | 0.390 |

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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