



RECHARGEABLE SEALED LEAD ACID BATTERY

Revision 1.1



WP12-12

Specifications

Nominal Voltage (V) 12V

Nominal Capacity

| | | | |
|--------------------|----|----------|--------|
| 20hour rate (0.6A | to | 10.50V) | 12Ah |
| 10hour rate (1.2A | to | 10.50V) | 11.4Ah |
| 5hour rate (2.04A | to | 10.20V) | 10.2Ah |
| 1C (12A | to | 9.60V) | 5.4Ah |
| 3C (36A | to | 9.60V) | 4.20Ah |

Weight Approx.4.075kg(8.96Lbs.)

Internal Resistance (at 1KHz) 13 mΩ

Maximum Discharge Current for 5 seconds : 135A

Operating Temperature Range

| | | | |
|-----------|-------------|----|--------------|
| Charge | 0°C (32°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% |

Charging Methods at 20°C (68°F)

Cycle use:

Charging Voltage 14.4 to 15.0V
Maximum Charging Current : 3.6A

Standby use :

Float Charging Voltage 13.50 to 13.80V

Life expectancy :

Cycle Use :

100% depth of discharge 200 cycles
80% depth of discharge 225 cycles
50% depth of discharge 500 cycles

Standby Use : 3~5years

Case Material

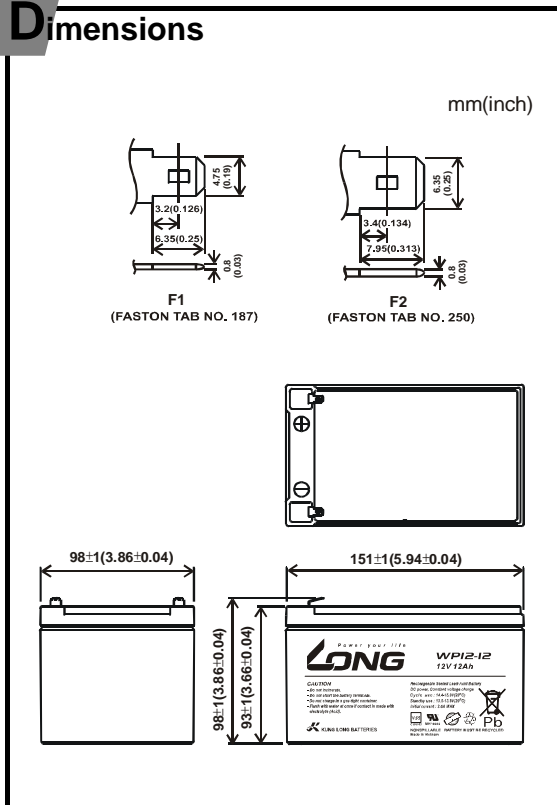
ABS

(Option : 94-HB & 94V-0 flame retardant case)

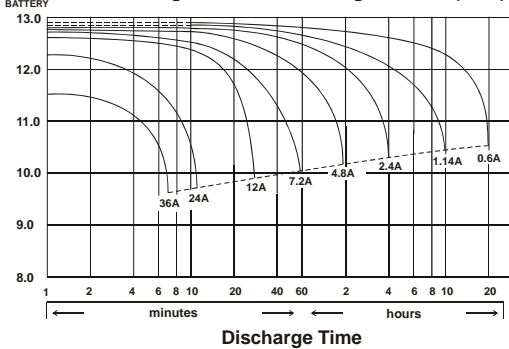
Terminal

F1 or F2

Dimensions



(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (20°C)





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

The tolerance range : $X < 6\text{min}(+15\% \sim -15\%)$, $6\text{min} \leq X < 10\text{min}(+12\% \sim -12\%)$, $10\text{min} \leq X < 60\text{min}(+8\% \sim -8\%)$, $X \geq 60\text{min}(+5\% \sim -5\%)$

PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C

| End Voltage | | 11.10V | 10.80V | 10.50V | 10.20V | 9.90V | 9.60V |
|-------------|-----|--------|--------|--------|--------|-------|-------|
| Time | | | | | | | |
| 5 | min | 386 | 459 | 507 | 535 | 546 | 554 |
| 10 | min | 287 | 323 | 347 | 361 | 367 | 371 |
| 15 | min | 221 | 245 | 261 | 269 | 273 | 276 |
| 30 | min | 137 | 149 | 157 | 161 | 164 | 165 |
| 60 | min | 79.2 | 81.4 | 82.8 | 83.7 | 84.6 | 86.5 |
| 120 | min | 45.8 | 48.5 | 50.0 | 50.8 | 51.3 | 51.8 |
| 180 | min | 33.6 | 34.0 | 34.5 | 35.0 | 35.4 | 35.9 |
| 240 | min | 26.4 | 27.6 | 28.2 | 28.5 | 28.8 | 29.0 |
| 300 | min | 22.2 | 23.1 | 23.5 | 23.6 | 23.9 | 24.0 |
| 600 | min | 13.3 | 13.6 | 13.8 | 14.0 | 14.3 | 14.4 |
| 1200 | min | 6.79 | 6.90 | 6.90 | 7.02 | 7.02 | 7.13 |

Discharge Rates in Amperes to Various End Voltages at 25°C

| End Voltage | | 11.10V | 10.80V | 10.50V | 10.20V | 9.90V | 9.60V |
|-------------|-----|--------|--------|--------|--------|-------|-------|
| Time | | | | | | | |
| 5 | min | 33.6 | 39.9 | 44.0 | 46.5 | 47.5 | 48.2 |
| 10 | min | 24.9 | 28.1 | 30.2 | 31.4 | 31.9 | 32.2 |
| 15 | min | 19.2 | 21.3 | 22.7 | 23.4 | 23.8 | 24.0 |
| 30 | min | 11.9 | 13.0 | 13.7 | 14.0 | 14.2 | 14.4 |
| 60 | min | 6.89 | 7.08 | 7.20 | 7.28 | 7.36 | 7.52 |
| 120 | min | 3.98 | 4.22 | 4.35 | 4.42 | 4.47 | 4.50 |
| 180 | min | 2.92 | 2.96 | 3.00 | 3.04 | 3.08 | 3.12 |
| 240 | min | 2.30 | 2.40 | 2.45 | 2.48 | 2.51 | 2.52 |
| 300 | min | 1.93 | 2.00 | 2.04 | 2.05 | 2.08 | 2.09 |
| 600 | min | 1.16 | 1.18 | 1.20 | 1.22 | 1.24 | 1.25 |
| 1200 | min | 0.59 | 0.60 | 0.60 | 0.61 | 0.61 | 0.62 |

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