

WPL150-12N 12Volt 150Ah

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

| | |
|-------------------------------|----------------|
| 10 hour rate (15A to 10.80V) | 150Ah |
| 5 hour rate (25.5A to 10.20V) | 127.5Ah |
| 1 hour rate (90A to 9.60V) | 90Ah |

Weight **Approx. 45.5kg(100Lbs.)**

Internal Resistance (at 1KHz) **Approx. 4.8mΩ**

Maximum Discharge Current for

5 seconds: **1500A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mV/ /cell

Maximum Charging Current : **45A**

Standby use:

Float Charging Voltage **13.5 to 13.8V**

Coefficient -3.0mV/ /cell

Operating Temperature Range

Charge **-15 (5) to 40 (104)**

Discharge **-15 (5) to 50 (122)**

Storage **-15 (5) to 40 (104)**

Design Life **12 years**

Charge Retention (shelf life) at 20 (68)

1 month **98%**

3 month **94%**

6 month **85%**

Case Material **ABS UL94 HB**

Option: Flammability resistance of (UL94 V-0)

Terminal **F18**

Description of torque value of hard ware for the terminals:

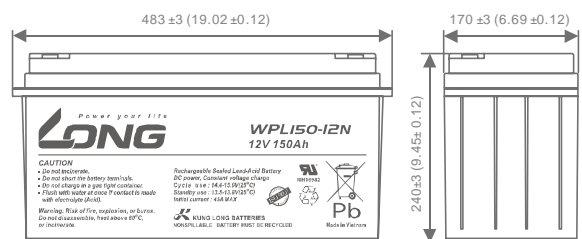
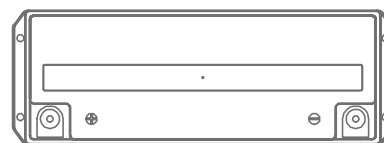
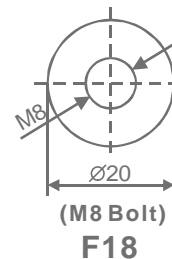
Recommended torque value **M8: 7 N-m (71kgf-cm)**

Maximum allowable torque value **M8: 9 N-m (92kgf-cm)**

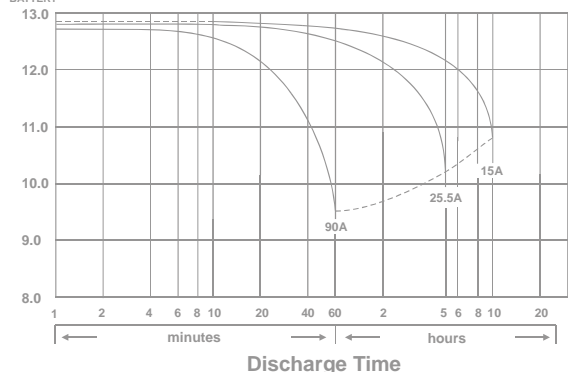


Dimensions

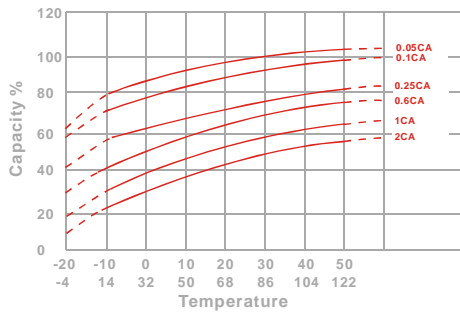
mm(inch)



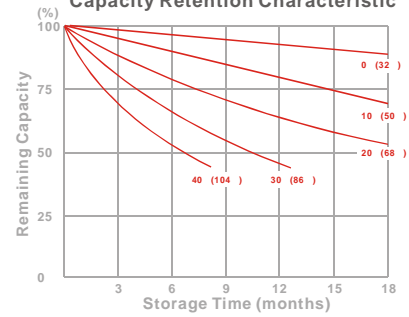
Discharge Time VS. Discharge Current (25)



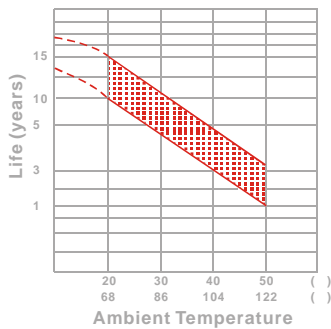
Effect of Temperature on Capacity 25 (77)



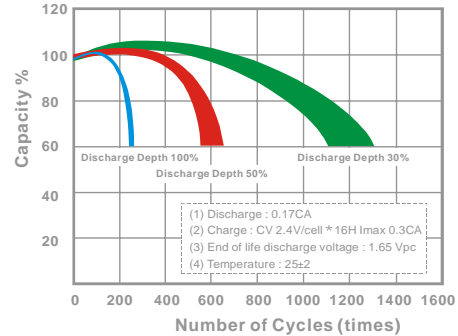
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

| Time | End Voltage | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 10 | min | 405 | 461 | 517 | 544 | 573 | 587 | 598 |
| 15 | min | 359 | 401 | 440 | 459 | 478 | 489 | 500 |
| 20 | min | 322 | 354 | 383 | 397 | 411 | 419 | 431 |
| 30 | min | 257 | 276 | 293 | 301 | 309 | 313 | 324 |
| 60 | min | 161 | 167 | 170 | 172 | 174 | 176 | 183 |
| 90 | min | 132 | 139 | 141 | 142 | 143 | 143 | 145 |
| 120 | min | 106 | 112 | 113 | 114 | 115 | 115 | 117 |
| 180 | min | 75.0 | 78.5 | 79.7 | 80.5 | 80.9 | 81.1 | 81.9 |
| 240 | min | 58.7 | 61.3 | 62.2 | 62.8 | 63.1 | 63.3 | 63.9 |
| 300 | min | 48.3 | 50.4 | 51.1 | 51.6 | 51.9 | 52.0 | 52.5 |
| 480 | min | 32.9 | 34.1 | 34.6 | 35.0 | 35.2 | 35.3 | 35.5 |
| 600 | min | 29.3 | 30.3 | 30.7 | 31.0 | 31.2 | 31.2 | 31.5 |
| 1200 | min | 14.6 | 15.0 | 15.2 | 15.4 | 15.5 | 15.5 | 15.5 |

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

| Time | End Voltage | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| 10 | min | 221 | 252 | 282 | 297 | 312 | 320 | 326 |
| 15 | min | 196 | 219 | 240 | 250 | 261 | 267 | 273 |
| 20 | min | 168 | 185 | 200 | 207 | 215 | 219 | 225 |
| 30 | min | 133 | 143 | 152 | 156 | 160 | 162 | 168 |
| 60 | min | 80.9 | 84.0 | 85.9 | 86.9 | 87.9 | 88.6 | 92.3 |
| 90 | min | 66.2 | 69.9 | 70.9 | 71.6 | 71.9 | 72.1 | 73.1 |
| 120 | min | 53.3 | 56.1 | 56.9 | 57.5 | 57.7 | 57.9 | 58.6 |
| 180 | min | 37.5 | 39.3 | 39.9 | 40.3 | 40.4 | 40.6 | 41.0 |
| 240 | min | 29.2 | 30.5 | 31.0 | 31.3 | 31.4 | 31.5 | 31.8 |
| 300 | min | 24.1 | 25.1 | 25.5 | 25.7 | 25.9 | 25.9 | 26.1 |
| 480 | min | 16.3 | 17.0 | 17.2 | 17.4 | 17.5 | 17.5 | 17.6 |
| 600 | min | 14.5 | 15.1 | 15.2 | 15.4 | 15.4 | 15.5 | 15.6 |
| 1200 | min | 7.23 | 7.42 | 7.54 | 7.62 | 7.67 | 7.68 | 7.70 |

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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