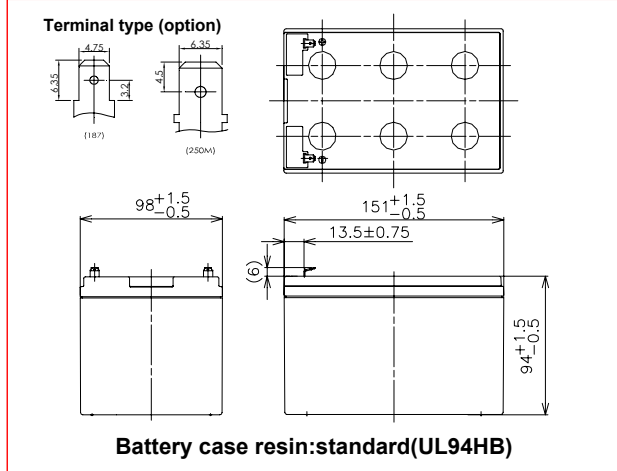


**LC-CA1215**



For main power supplies  
Cycle long life type.

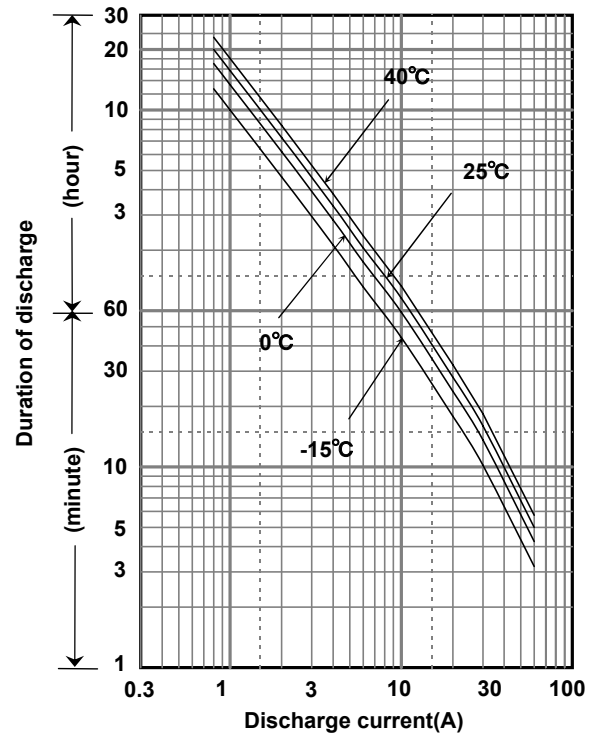
■ Dimensions(mm)



■ Specification

|                      |              |                   |
|----------------------|--------------|-------------------|
| Nominal Voltage      |              | 12V               |
| Rated Capacity(20HR) |              | 15Ah              |
| Dimensions           | Length       | 151 mm            |
|                      | Width        | 98 mm             |
|                      | Height       | 94 mm             |
|                      | Total height | 100 mm            |
| Approx. Mass         |              | 4.2 kg            |
| Terminal             |              | Faston 187 & 250M |

■ Duration of discharge vs. discharge current



■ Characteristics

|   |                               |        |
|---|-------------------------------|--------|
| Capacity (25 °C)                                  | 20 hour rate                  | 15Ah   |
|   | 10 hour rate                  | 14Ah   |
|   | 5 hour rate                   | 12.9Ah |
|   | 1 hour rate                   | 10Ah   |
| Internal Resistance                               | Fully charged battery (25 °C) | 15 mΩ  |
| Temperature Dependency of Capacity (20 hour rate) | 40 °C                         | 102%   |
|   | 25 °C                         | 100%   |
|   | 0 °C                          | 85%    |
|   | -15 °C                        | 65%    |
| Self Discharge (25 °C)                            | After 3 months                | 91%    |
|   | After 6 months                | 82%    |
|   | After 12 months               | 64%    |

■ Watt Table(25°C)

| Cut-off V | (Wattage/Battery) |      |       |       |       |       |       |     |      |      |      |      |      |      |      |      |      |
|-----------|-------------------|------|-------|-------|-------|-------|-------|-----|------|------|------|------|------|------|------|------|------|
|           | 3min              | 5min | 10min | 15min | 20min | 30min | 45min | 1h  | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 10h  | 20h  | 24h  |
| 9.6V      | 850               | 682  | 455   | 350   | 292   | 217   | 157   | 123 | 83.9 | 65.0 | 47.1 | 36.0 | 29.9 | 25.2 | 16.2 | 8.75 | 7.30 |
| 9.9V      | 799               | 646  | 444   | 343   | 286   | 213   | 156   | 123 | 82.8 | 64.6 | 46.9 | 35.8 | 29.7 | 25.1 | 16.1 | 8.74 | 7.29 |
| 10.2V     | 741               | 607  | 433   | 336   | 281   | 211   | 154   | 121 | 81.4 | 63.4 | 46.4 | 35.7 | 29.5 | 24.9 | 15.9 | 8.72 | 7.27 |
| 10.5V     | 667               | 555  | 404   | 318   | 270   | 206   | 152   | 118 | 80.1 | 61.9 | 45.7 | 35.5 | 29.4 | 24.8 | 15.9 | 8.70 | 7.25 |
| 10.8V     | 576               | 497  | 368   | 300   | 263   | 199   | 146   | 116 | 77.7 | 59.6 | 44.8 | 35.1 | 28.9 | 24.5 | 15.7 | 8.66 | 7.21 |

■ Ampere Table(25°C)

| Cut-off V | (Ampere/Battery) |      |       |       |       |       |       |      |      |      |      |      |      |      |      |      |      |
|-----------|------------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
|           | 3min             | 5min | 10min | 15min | 20min | 30min | 45min | 1h   | 1.5h | 2h   | 3h   | 4h   | 5h   | 6h   | 10h  | 20h  | 24h  |
| 9.6V      | 76.5             | 61.2 | 40.6  | 30.4  | 25.2  | 18.5  | 13.4  | 10.5 | 7.11 | 5.49 | 3.96 | 3.01 | 2.49 | 2.10 | 1.35 | 0.73 | 0.61 |
| 9.9V      | 71.8             | 58.0 | 39.7  | 29.9  | 24.7  | 18.2  | 13.3  | 10.4 | 7.01 | 5.45 | 3.94 | 3.00 | 2.48 | 2.09 | 1.34 | 0.73 | 0.61 |
| 10.2V     | 66.6             | 54.5 | 38.6  | 29.2  | 24.2  | 18.1  | 13.1  | 10.3 | 6.89 | 5.36 | 3.90 | 2.99 | 2.46 | 2.08 | 1.33 | 0.73 | 0.61 |
| 10.5V     | 59.9             | 49.8 | 36.1  | 27.6  | 23.3  | 17.6  | 13.0  | 10.0 | 6.78 | 5.22 | 3.84 | 2.97 | 2.45 | 2.07 | 1.33 | 0.72 | 0.60 |
| 10.8V     | 51.8             | 44.6 | 32.9  | 26.1  | 22.7  | 17.0  | 12.5  | 9.82 | 6.58 | 5.03 | 3.77 | 2.94 | 2.41 | 2.04 | 1.31 | 0.72 | 0.60 |

### Charging Method

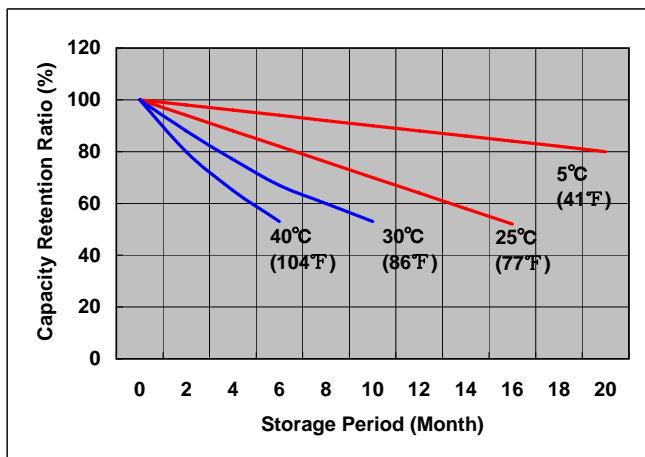
(25°C)

|           |   |
|-----------|---|
| Cycle use | Control voltage 14.5-14.9V; Initial current 6A or smaller |
|-----------|---|

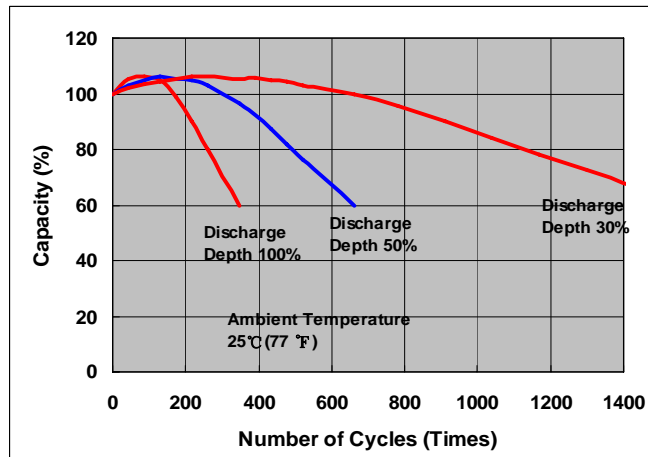
### Cut off voltage

|                    |          |         |          |         |         |
|--------------------|----------|---------|----------|---------|---------|
| Discharge current  | 0.75A-3A | 3A-7.5A | 7.5A-15A | 15A-30A | 30A-45A |
| Cut off voltage(V) | 10.5     | 10.2    | 9.9      | 9.3     | 8.7     |

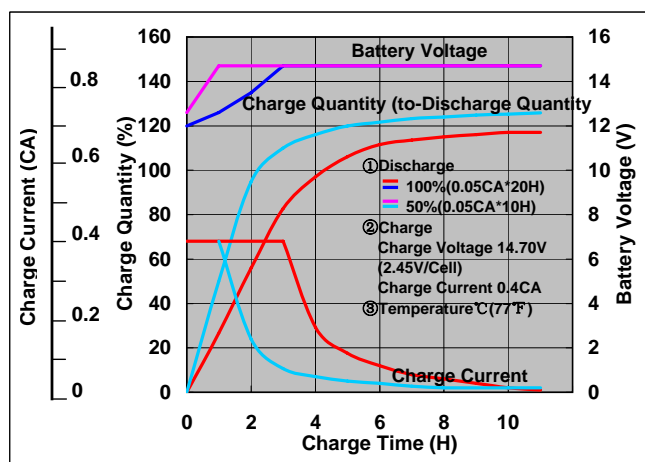
### Residual capacity test result



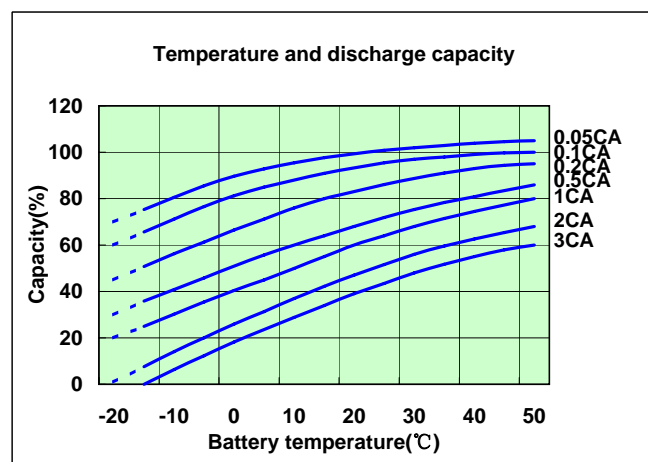
### Cycle life vs. Depth of discharge



### Constant-voltage and constant-current charge characteristics



### Discharge capacity by temperature and by discharge current



### Discharge characteristics(25°C)

