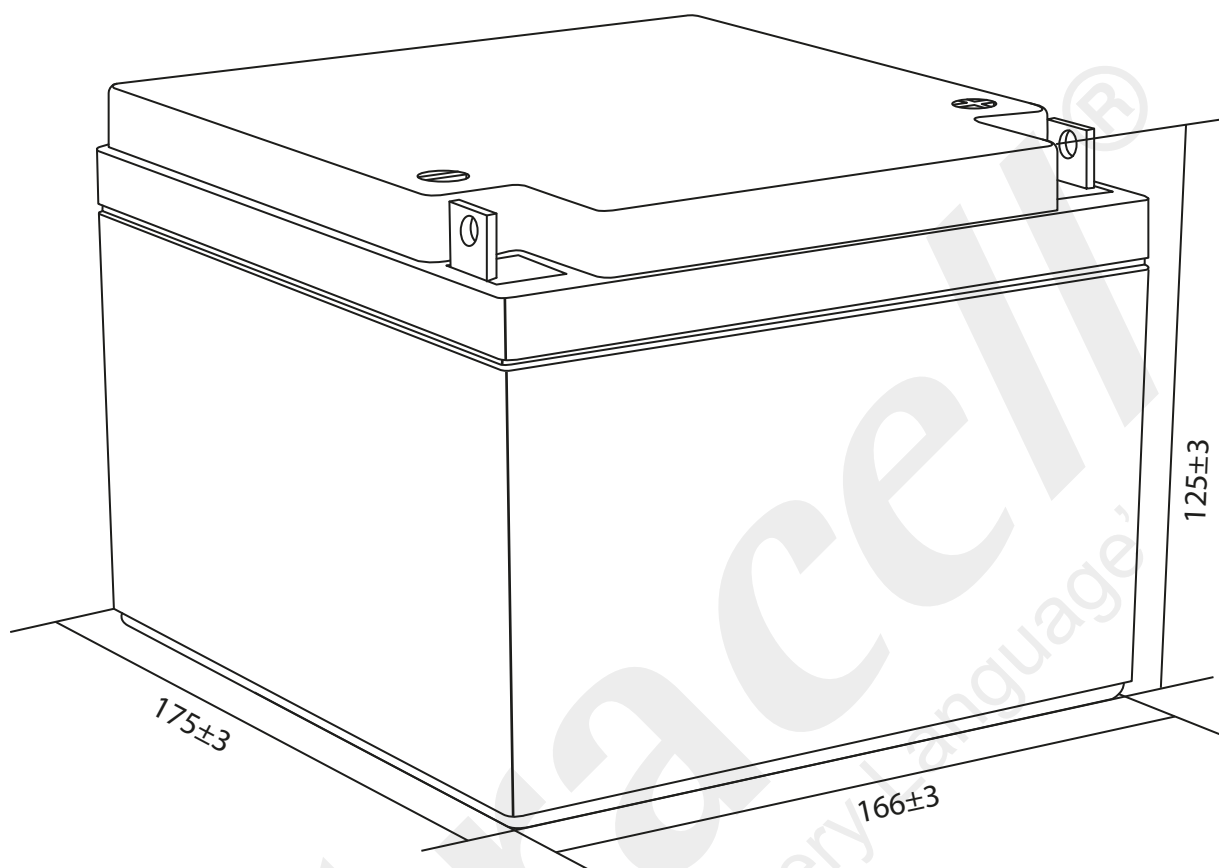
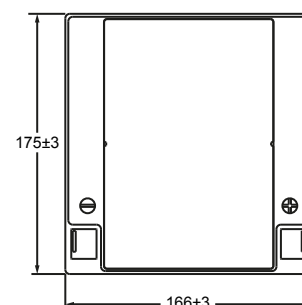
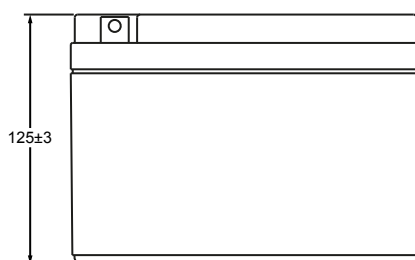
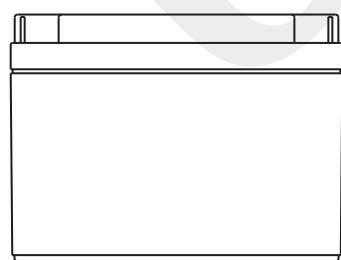


Art.-Nr. 2010871



Technical Dimensions (mm)

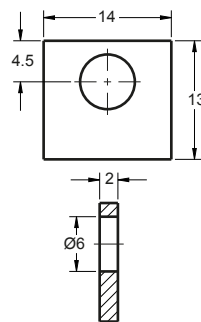


## Image

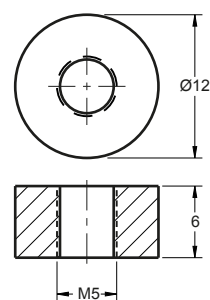


## Terminal Dimensions (mm)

### Standard Terminal: F3



### Optional Terminal: F12



## Technical Specification

|                              |                                  |                                                                                                     |
|------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------|
| Output                       | Nominal Voltage                  | 12V                                                                                                 |
|                              | Nominal Capacity (20HR)          | 26Ah                                                                                                |
| Terminal Type                | Standard Terminal                | F3                                                                                                  |
|                              | Optional Terminal                | F12                                                                                                 |
| Container Material           | Standard Option                  | ABS                                                                                                 |
|                              | Flame Retardant Option (FR)      | ABS (UL94:VO)                                                                                       |
| Rated Capacity               | (20HR 1.75V/cell, 25°C)          | 26.0 Ah/1.3A                                                                                        |
|                              | (10HR 1.75V/cell, 25°C)          | 24.6 Ah/2.46A                                                                                       |
|                              | (5HR 1.75V/cell, 25°C)           | 21.9 Ah/4.37A                                                                                       |
|                              | (3HR 1.75V/cell, 25°C)           | 19.1 Ah/6.38A                                                                                       |
|                              | (1HR 1.60V/cell, 25°C)           | 16.0 Ah/16.0A                                                                                       |
|                              |                                  |                                                                                                     |
| Max Discharge Current        | 390A (5s)                        |                                                                                                     |
| Internal Resistance          | Approx 14mΩ                      |                                                                                                     |
| Discharge Characteristics    | Operating Temp Range             | Discharge: -15 ~ 50°C<br>Charge: 0 ~ 40°C<br>Storage: -15 ~ 40°C                                    |
|                              | Nominal Operating Temp Range     | 25 ± 3°C                                                                                            |
|                              | Cycle Use                        | Initial Charging Current less than 7.8A.<br>Voltage 14.4V ~ 15.0V @ 25°C Temp. Coefficient -30mV/°C |
|                              | Standby Use                      | Initial Charging Current less than 7.8A.<br>Voltage 13.5V ~ 13.8V @ 25°C Temp. Coefficient -20mV/°C |
|                              | Capacity affected by Temperature | 40°C 103%<br>25°C 100%<br>0°C 86%                                                                   |
|                              |                                  |                                                                                                     |
| Design Floating Life at 20°C | 5 Years                          |                                                                                                     |

## Self Discharge

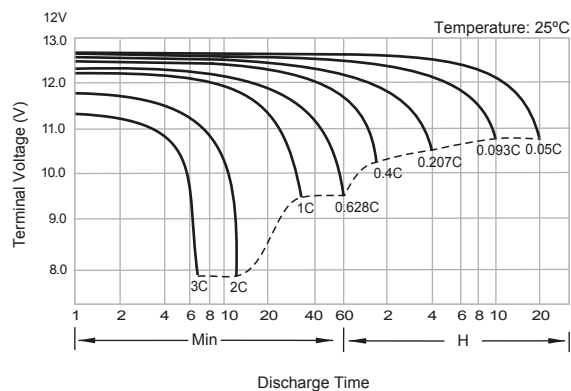
Ultracell® UL batteries may be stored for up to 6 months at 25°C and then a refresh charge is required. For higher temperatures the time intervals will be shorter.

## Constant Current Discharge / Constant Power Discharge At 25°C (Amperes & Watts/Cell)

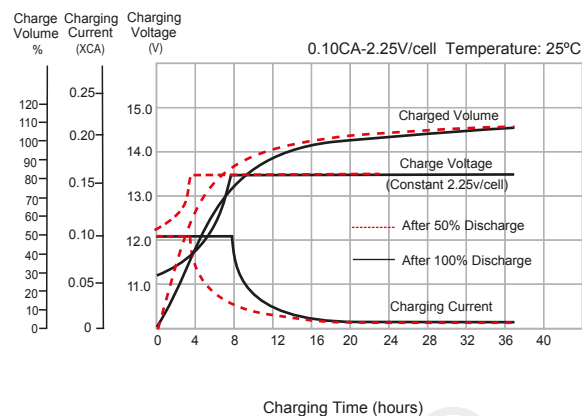
A = Amperes W = Watts

| F.V/TIME   | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 60 min | 90 min | 2 hours | 3 hours | 4 hours | 5 hours | 6 hours | 8 hours | 10 hours | 20 hours |
|------------|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|----------|----------|
| A W        |       |        |        |        |        |        |        |        |         |         |         |         |         |         |          |          |
| 1.85V/cell | 69.9  | 51.1   | 38.8   | 33.1   | 24.8   | 18.2   | 14.5   | 10.8   | 8.56    | 6.18    | 4.92    | 4.25    | 3.64    | 2.87    | 2.40     | 1.27     |
|            | 132.2 | 97.3   | 74.2   | 63.7   | 47.9   | 35.2   | 28.2   | 21.1   | 16.8    | 12.1    | 9.70    | 8.39    | 7.20    | 5.68    | 4.77     | 2.54     |
| 1.80V/cell | 75.1  | 54.2   | 40.7   | 34.4   | 25.6   | 18.7   | 14.8   | 11.0   | 8.72    | 6.28    | 5.00    | 4.31    | 3.70    | 2.91    | 2.44     | 1.29     |
|            | 140.8 | 102.4  | 77.4   | 65.9   | 49.2   | 36.1   | 28.8   | 21.4   | 17.0    | 12.3    | 9.82    | 8.50    | 7.30    | 5.76    | 4.84     | 2.57     |
| 1.75V/cell | 79.2  | 56.3   | 42.0   | 35.3   | 26.2   | 19.1   | 15.1   | 11.2   | 8.88    | 6.38    | 5.06    | 4.37    | 3.74    | 2.94    | 2.46     | 1.30     |
|            | 146.7 | 105.7  | 79.5   | 67.3   | 50.3   | 36.7   | 29.2   | 21.8   | 17.3    | 12.5    | 9.94    | 8.60    | 7.38    | 5.82    | 4.88     | 2.60     |
| 1.70V/cell | 82.9  | 58.6   | 43.4   | 36.4   | 26.9   | 19.5   | 15.4   | 11.4   | 9.01    | 6.47    | 5.13    | 4.43    | 3.78    | 2.97    | 2.48     | 1.31     |
|            | 152.1 | 109.2  | 81.7   | 68.9   | 51.3   | 37.4   | 29.7   | 22.1   | 17.5    | 12.6    | 10.1    | 8.70    | 7.45    | 5.87    | 4.93     | 2.62     |
| 1.67V/cell | 85.8  | 60.3   | 44.5   | 37.1   | 27.4   | 19.8   | 15.6   | 11.6   | 9.11    | 6.54    | 5.18    | 4.46    | 3.82    | 2.99    | 2.50     | 1.32     |
|            | 156.1 | 111.7  | 83.4   | 70.2   | 52.1   | 37.9   | 30.1   | 22.3   | 17.7    | 12.8    | 10.1    | 8.76    | 7.52    | 5.92    | 4.96     | 2.64     |
| 1.60V/cell | 91.0  | 62.8   | 46.0   | 38.2   | 28.1   | 20.3   | 16.0   | 11.8   | 9.29    | 6.66    | 5.27    | 4.54    | 3.87    | 3.04    | 2.53     | 1.34     |
|            | 162.4 | 114.9  | 85.7   | 71.9   | 53.2   | 38.6   | 30.6   | 22.7   | 18.0    | 13.0    | 10.3    | 8.88    | 7.61    | 5.99    | 5.02     | 2.67     |

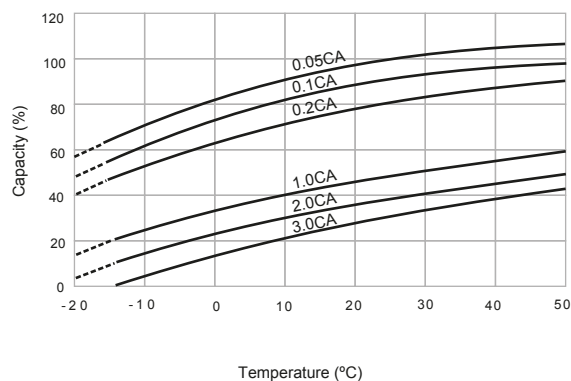
## Discharge Characteristics



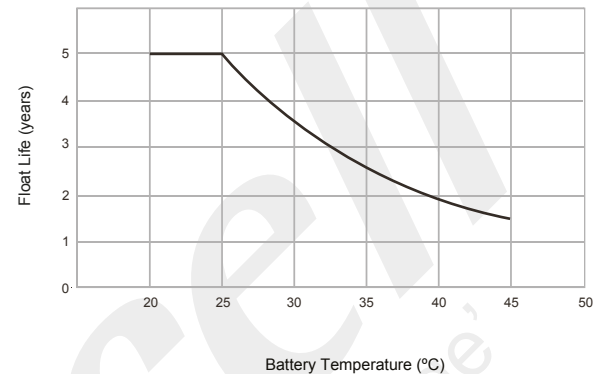
## Float Charging Characteristics



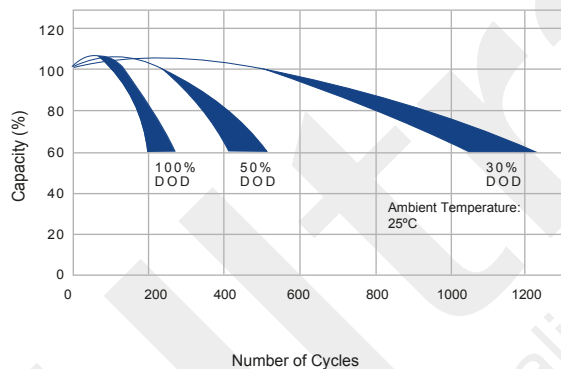
## Temperature Effects in Relation to Battery Capacity



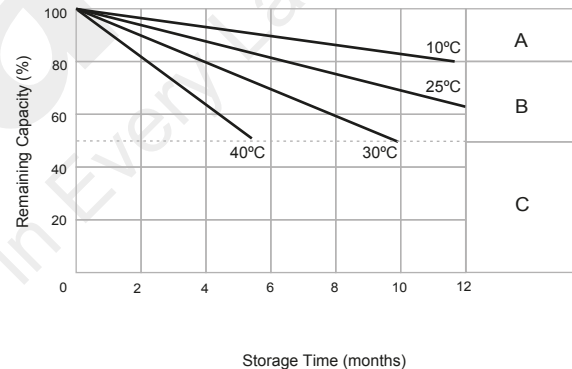
## Effects of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## General Relation of Capacity vs. Storage Time



## General Relation of Capacity vs. Storage Time (Notes)

- A) No supplementary charge required.  
(Carryout supplementary charge before use if 100% capacity is required.)
- B) Supplementary charge required before use. Optional charging way as below:
  1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
  2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.25V/cell.
  3. Charged for 8 ~ 10 hours at limited current 0.05 CA.
- C) Supplementary charge may often fail to recover the capacity.  
The battery should never be left standing till this is reached.