

## Range Summary

Using oxygen recombination technology: maintenance-free

PbCaSn alloy for plate grids: low self discharge rate than 3% per month

High quality AGM separator: extend cycle life and prevent micro short circuit retardant

High purity raw material: 99.99% pure lead

## Application

Cable Television  
Communication  
Equipment  
Security System

UPS  
Control Equipment  
Medical Equipment  
Emergency Power



ISO 9001

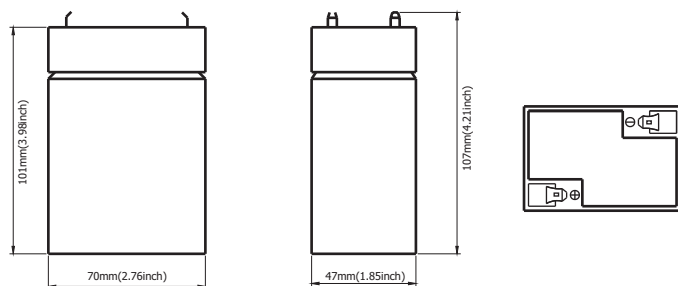


ISO 14001

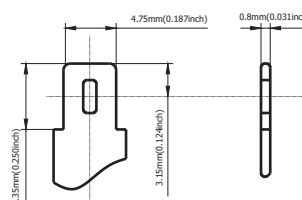


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## Battery Dimensions

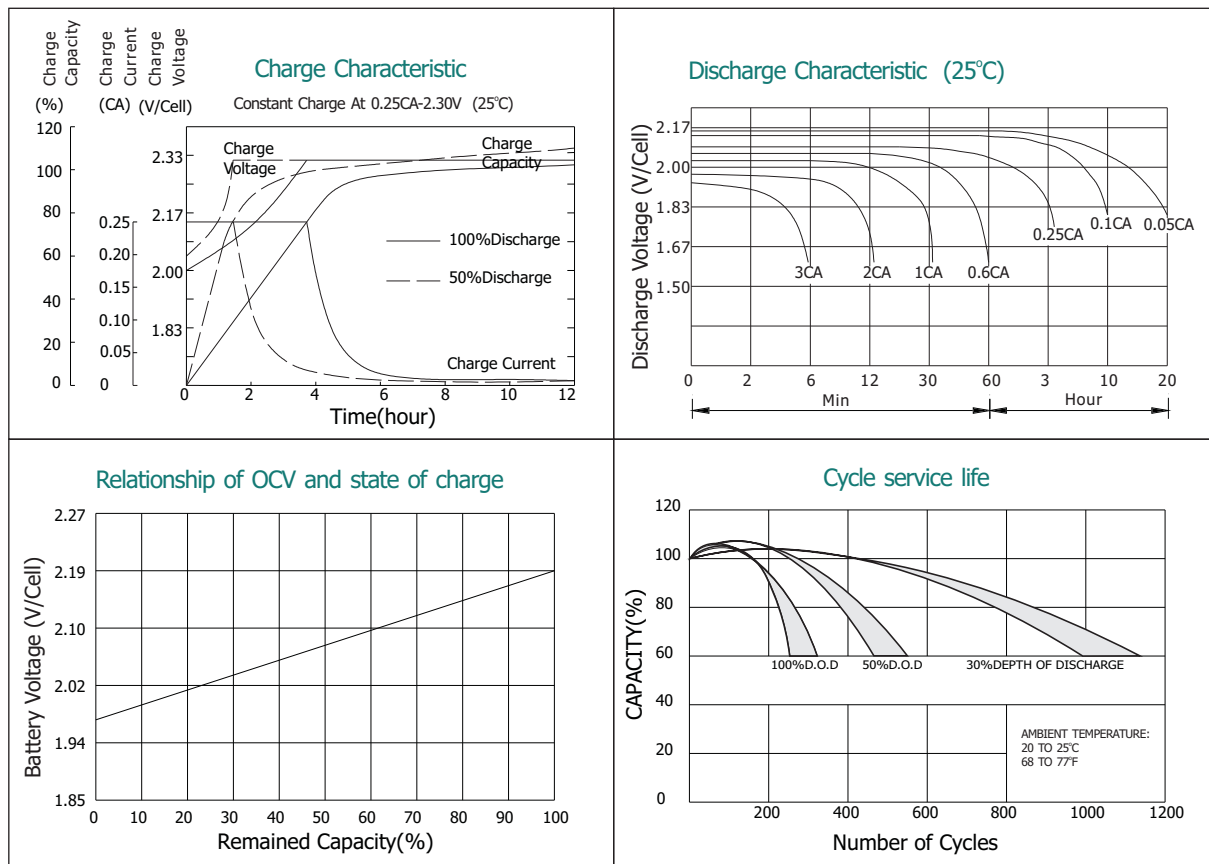


## Terminal Dimensions



## Technical Specifications

| Battery Model                    | VT-6-4.5                                    |                   |                     |                  |
|----------------------------------|---------------------------------------------|-------------------|---------------------|------------------|
| Designed Floating Life           | 5 Years                                     |                   |                     |                  |
| Capacity(25°C)                   | 20HR(0.225A,1.80V)                          | 10HR(0.41A,1.80V) | 5HR(0.76A,1.75V)    | 1HR(2.94A,1.60V) |
|                                  | 4.5AH                                       | 4.10AH            | 3.80AH              | 2.94AH           |
| Dimensions                       | Length                                      | Width             | Height              | Total Height     |
|                                  | 70mm(2.76inch)                              | 47mm(1.85inch)    | 101mm(3.98inch)     | 107mm(4.21inch)  |
| Approx. Weight                   | 0.7Kg                                       |                   |                     |                  |
| Internal Resistance              | Full charged at 25°C: 0.022 Ohm             |                   |                     |                  |
| Self Discharge                   | 3% of capacity declined per month at (25°C) |                   |                     |                  |
| Capacity Affected by Temp.(20HR) | 40°C                                        | 25°C              | 0°C                 | -15°C            |
|                                  | 109%                                        | 100%              | 85%                 | 65%              |
| Charge Voltage(25°C)             | Cycle use                                   |                   | Float use           |                  |
|                                  | 7.2-7.5V(-15mV/ °C), max. Current: 1.35A    |                   | 6.8-6.9V(-10mV/ °C) |                  |



### Constant current discharge ratings-amperes at 25°C

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  | 20HR  |
|----------|------|-------|-------|-------|------|------|------|-------|-------|
| 1.60V    | 17.6 | 10.9  | 8.25  | 5.03  | 2.94 | 1.40 | 0.82 | 0.422 | 0.253 |
| 1.67V    | 16.5 | 10.4  | 7.94  | 4.81  | 2.90 | 1.35 | 0.80 | 0.418 | 0.244 |
| 1.70V    | 15.1 | 10.0  | 7.75  | 4.38  | 2.82 | 1.26 | 0.78 | 0.417 | 0.240 |
| 1.75V    | 14.8 | 9.69  | 7.50  | 4.16  | 2.68 | 1.22 | 0.76 | 0.411 | 0.234 |
| 1.80V    | 13.3 | 9.25  | 6.81  | 3.85  | 2.51 | 1.17 | 0.72 | 0.406 | 0.227 |
| 1.85V    | 11.7 | 8.81  | 6.13  | 3.54  | 2.34 | 1.13 | 0.67 | 0.400 | 0.221 |

### Constant power discharge ratings-watts at 25°C

| F.V/Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR | 20HR |
|----------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V    | 30.8 | 19.8  | 15.1  | 9.06  | 5.31 | 2.49 | 1.38 | 0.84 | 0.50 |
| 1.67V    | 29.8 | 19.3  | 14.9  | 8.88  | 5.28 | 2.41 | 1.37 | 0.84 | 0.49 |
| 1.70V    | 28.2 | 19.1  | 14.8  | 8.31  | 5.18 | 2.30 | 1.35 | 0.83 | 0.48 |
| 1.75V    | 28.0 | 19.0  | 14.6  | 8.06  | 5.09 | 2.25 | 1.34 | 0.82 | 0.47 |
| 1.80V    | 25.8 | 18.7  | 13.6  | 7.69  | 4.80 | 2.18 | 1.30 | 0.81 | 0.46 |
| 1.85V    | 23.4 | 17.8  | 12.3  | 7.20  | 4.51 | 2.12 | 1.26 | 0.80 | 0.44 |

|                                                                                             |                                             |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Quality Management System Authentication</b><br>GB/T19001-2008<br>NO.00113Q29865ROM/4200 | <b>CE authentication</b><br>CE12-GPE 120171 |     |      |
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