

### GENERAL FEATURES

- Environmentally friendly
- Can be used at vertical or horizontal orientation
- High Reliability and Good Quality
- High gas recombination efficiency
- High Power Density
- Maintenance-Free Operation

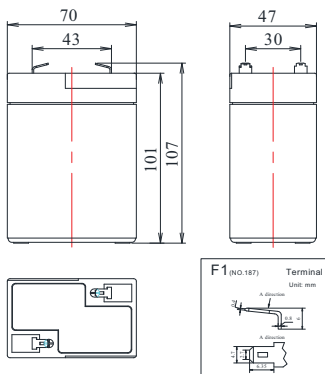
### APPLICATIONS

- UPS & EPS
- Emergency lighting Systems
- Medical Equipment
- Cable TV Systems
- Alarm Systems
- Electric Test Equipment
- Security Systems



### DIMENSIONS & WEIGHT

|                  |         |
|------------------|---------|
| Length(mm)       | 70±1    |
| Width(mm)        | 47±1    |
| Height(mm)       | 101±1   |
| Total Height(mm) | 107±1   |
| Weight(kg)       | 0.75±3% |



### COMPLIED STANDARDS

|                 |              |
|-----------------|--------------|
| IEC 60896-21/22 | JIS C8704    |
| YD/T799         | BS6290 part4 |
| GB/T 19639      | UL 1989      |

### TECHNICAL SPECIFICATIONS



|   |                            |  |
|---|----------------------------|--|
| Nominal Voltage                                     |                            | 6V(3 cells per unit)   |
| Design Floating Life @25°C                          |                            | 5 Years  |
| Nominal Capacity @25°C (20 hour rate@0.225A,10.50V) |                            | 4.50Ah   |
| Capacity @25°C                                      | 10 hour rate (0.42A,10.8V) | 4.20Ah   |
|   | 5 hour rate (0.80A,10.5V)  | 4.00Ah   |
|   | 1 hour rate (2.94A,9.6V)   | 2.94Ah   |
| Internal Resistance                                 | Full Charged Battery@25°C  | ≤18.0mΩ  |
| Ambient Temperature                                 | Discharge                  | -20°C~50°C   |
|   | Charge                     | -20°C~50°C   |
|   | Storage                    | -20°C~50°C   |
| Max.Discharge Current@25°C                          |                            | 67.5A(5s)  |
| Capacity affected by Temperature (10 hr Capacity)   | 40°C                       | 102%   |
|   | 25°C                       | 100%   |
|   | 0°C                        | 85%  |
|   | -15°C                      | 65%  |
| Self-Discharge@25°C per Month                       |                            | 3%   |
| Charge (Constant Voltage) @25°C                     | Floating Charge            | Initial Charging Current Less than 1.35A<br>Voltage 13.6-13.8V |
|   | Cycle Charge               | Initial Charging Current Less than 1.35A<br>Voltage 14.4-14.9V |

### BATTERY DISCHARGE TABLE

#### Discharge Constant Current per Cell (Amperes at 25°C)

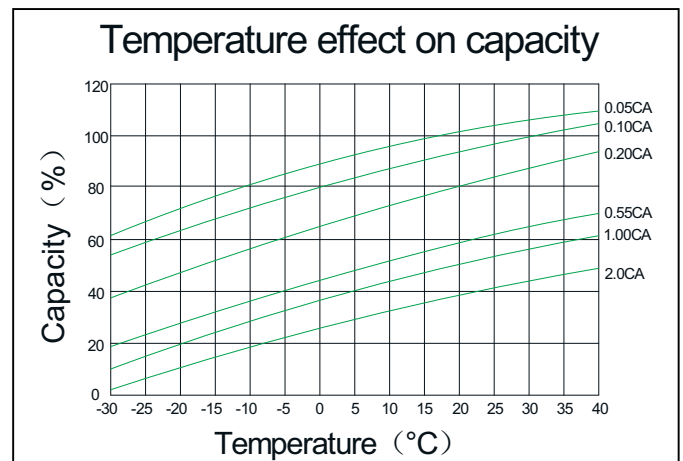
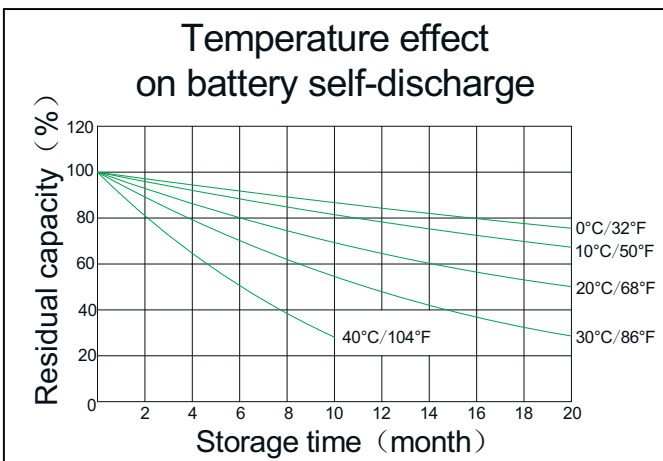
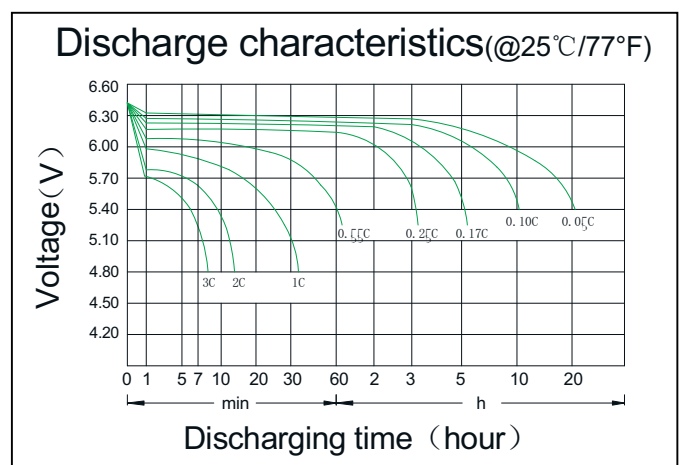
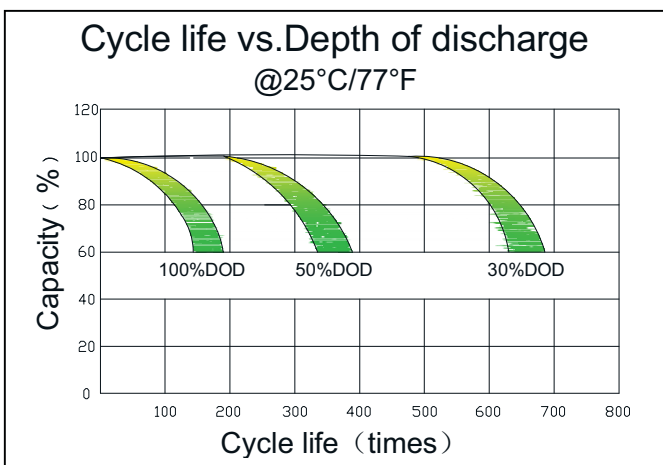
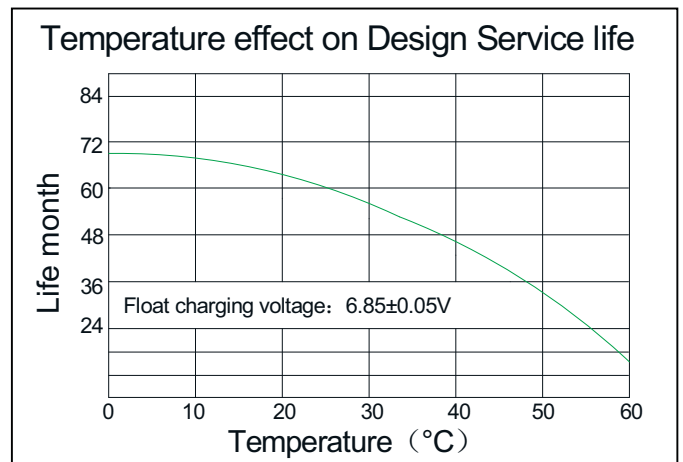
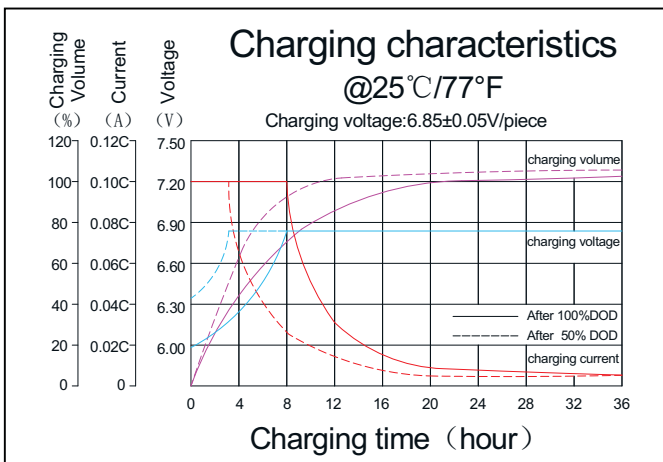
| F.V/Time | 5min  | 10min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h   |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| 1.60V    | 17.96 | 11.78 | 8.65  | 5.13  | 3.74  | 2.94 | 1.86 | 1.27 | 0.85 | 0.57 | 0.45 | 0.238 |
| 1.67V    | 17.11 | 11.29 | 8.46  | 5.05  | 3.68  | 2.84 | 1.83 | 1.25 | 0.84 | 0.56 | 0.44 | 0.233 |
| 1.70V    | 16.39 | 10.67 | 8.34  | 4.98  | 3.64  | 2.75 | 1.79 | 1.23 | 0.82 | 0.55 | 0.44 | 0.230 |
| 1.75V    | 15.62 | 10.18 | 7.90  | 4.82  | 3.54  | 2.67 | 1.76 | 1.20 | 0.80 | 0.54 | 0.43 | 0.225 |
| 1.80V    | 14.43 | 9.48  | 7.37  | 4.62  | 3.42  | 2.59 | 1.69 | 1.16 | 0.77 | 0.53 | 0.42 | 0.222 |

#### Discharge Constant Power per Cell (Watts at 25°C)

| F.V/Time | 5min  | 10min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h   |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|
| 1.60V    | 33.45 | 22.60 | 16.71 | 9.98  | 7.30  | 5.78 | 3.65 | 2.51 | 1.68 | 1.14 | 0.90 | 0.474 |
| 1.67V    | 32.05 | 21.69 | 16.39 | 9.84  | 7.21  | 5.58 | 3.58 | 2.46 | 1.65 | 1.12 | 0.89 | 0.467 |
| 1.70V    | 30.74 | 20.51 | 16.21 | 9.73  | 7.14  | 5.38 | 3.51 | 2.42 | 1.62 | 1.10 | 0.89 | 0.462 |
| 1.75V    | 29.44 | 19.59 | 15.38 | 9.44  | 6.96  | 5.18 | 3.45 | 2.37 | 1.59 | 1.09 | 0.87 | 0.452 |
| 1.80V    | 27.45 | 18.32 | 14.37 | 9.09  | 6.75  | 4.98 | 3.31 | 2.28 | 1.53 | 1.07 | 0.86 | 0.450 |

**Note** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CBB** for the latest information.

### PERFORMANCE CHARACTERISTICS



### BATTERY CONSTRUCTION

| Component | Positive plate                               | Negative plate  | Container & Cover      | Safety valve                        | Terminal                     | Separator  | Electrolyte                       | Pillar seal                 |
|-----------|--|---|------------------------|-------------------------------------|------------------------------|--|-----------------------------------|-----------------------------|
| Features  | Thick high Sn low Ca grid with special paste | Balanced Pb-Ca grid for improved recombination efficiency | ABS (UL94-V0 optional) | Flame Si-Rubbeand aging resistancer | Female Copper Insert (F1/F2) | Advanced AGM separator for high pressure cell design | Dilute high purity sulphuric acid | Two layers epoxy resin seal |

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