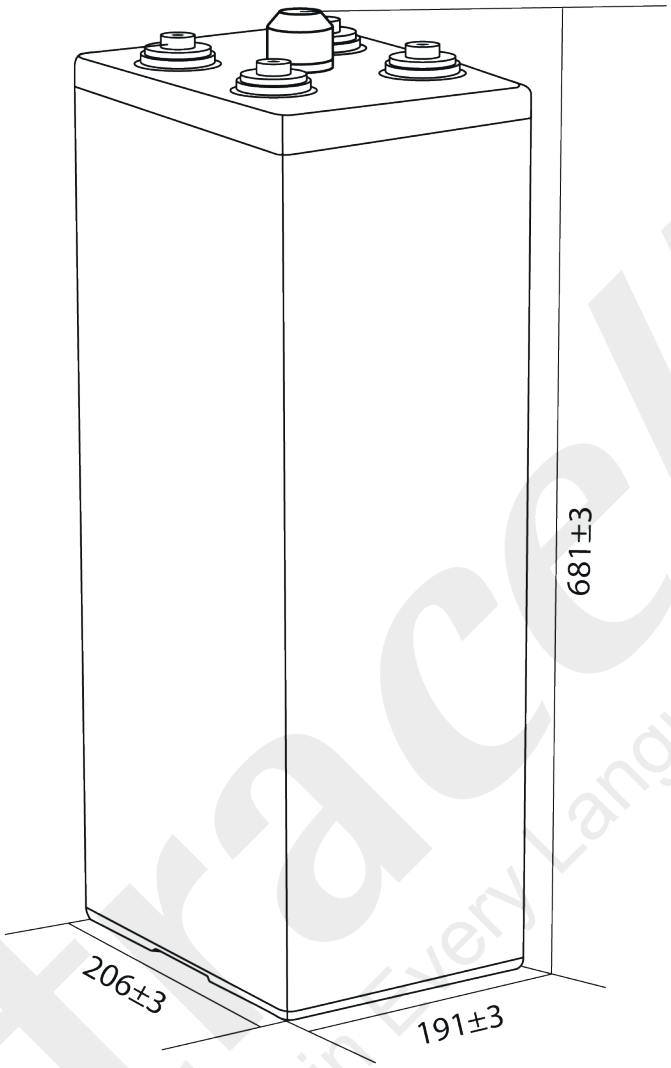
# Ultracell®

'Quality in Every Language'

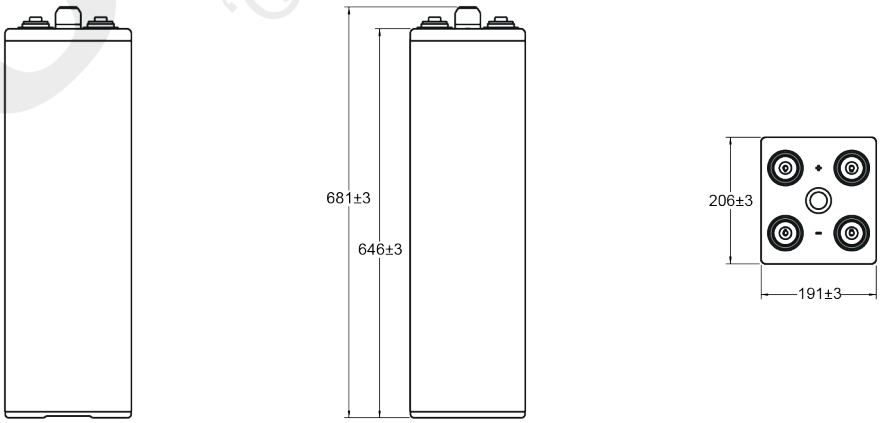
# UZV800-2

2V 800Ah

Tubular Gel Series



Technical Dimensions (mm)



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TechData

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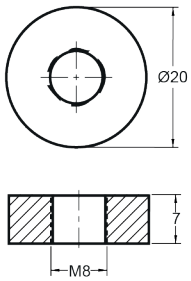
## Image

## Terminal Dimensions (mm)

Standard
Terminal: F11




## Technical Specification

| | | |
|---|---|---|
| **Output** | Nominal Voltage<br>Nominal Capacity (10HR) | 2V<br>800Ah |
| **Terminal Type** | Standard Terminal | F11 |
| **Container Material** | Standard Option<br>Flame Retardant Option (FR) | ABS<br>ABS (UL94:VO) |
| **Rated Capacity** | (120HR 1.80V/cell, 25°C)<br>(10HR 1.80V/cell, 25°C)<br>(1HR 1.65V/cell, 25°C) | 980.0 Ah/8.16A<br>800.0 Ah/80.0A<br>448.0 Ah/449.0A |
| **Max Discharge Current** | 4000A (5s) | |
| **Internal Resistance** | Approx 0.50mΩ | |
| **Discharge Characteristics** | Operating Temp Range | Discharge: -15 ~ 50°C<br>Charge: -10 ~ 50°C<br>Storage: -20 ~ 50°C |
| | Nominal Operating Temp Range | 25 ± 3°C |
| | Cycle Use | Initial Charging Current less than 160A.<br>Voltage 2.35V ~ 2.40V @ 25°C Temp. Coefficient -4mV/°C |
| | Standby Use | No limit on initial charging current.<br>Voltage 2.25V ~ 2.27V @ 25°C Temp. Coefficient -3mV/°C |
| | Capacity affected by Temperature | 40°C 103%<br>25°C 100%<br>0°C 88% |
| **Design Floating Life at 20°C** | 20 Years | |

## Self Discharge

**Ultracell®** UZV 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<br>A / W | 30 min | 60 min | 2 hours | 3 hours | 4 hours | 5 hours | 6 hours | 8 hours | 10 hours | 20 hours | 24 hours | 48 hours | 72 hours | 100 hours | 120 hours |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1.85V/cell** | 577<br>1078 | 395<br>751 | 248<br>479 | 191<br>375 | 155<br>303 | 132<br>260 | 114<br>223 | 88.8<br>176 | 76.0<br>151 | 40.3<br>80.6 | 34.8<br>70.0 | 19.0<br>38.3 | 13.0<br>26.4 | 9.68<br>19.5 | 8.16<br>16.6 |
| **1.80V/cell** | 607<br>1135 | 416<br>790 | 261<br>504 | 202<br>395 | 163<br>319 | 139<br>274 | 119<br>235 | 93.6<br>186 | 80.0<br>159 | 42.4<br>84.8 | 36.6<br>73.7 | 19.4<br>39.1 | 13.2<br>27.0 | ---<br>--- | ---<br>--- |
| **1.75V/cell** | 630<br>1178 | 429<br>815 | 268<br>517 | 208<br>408 | 168<br>330 | 143<br>282 | 123<br>242 | 96.8<br>192 | 80.8<br>160 | 42.7<br>85.6 | 36.8<br>73.9 | 19.5<br>39.4 | 13.3<br>27.1 | ---<br>--- | ---<br>--- |
| **1.70V/cell** | 646<br>1208 | 438<br>832 | 272<br>525 | 210<br>410 | 169<br>331 | 144<br>284 | 124<br>245 | 97.6<br>193 | 80.8<br>162 | 43.0<br>85.6 | 36.9<br>74.1 | 19.6<br>39.6 | ---<br>--- | ---<br>--- | ---<br>--- |
| **1.65V/cell** | 666<br>1246 | 449<br>854 | 274<br>530 | 211<br>414 | 170<br>334 | 146<br>286 | 125<br>246 | 98.4<br>194 | 81.6<br>162 | 43.0<br>86.4 | 37.1<br>74.6 | ---<br>--- | ---<br>--- | ---<br>--- | ---<br>--- |

VdS
MH 29410
CE
EMC 1188-C
IEC
IEC 60896
Quality Verified
ISO 9001:2015



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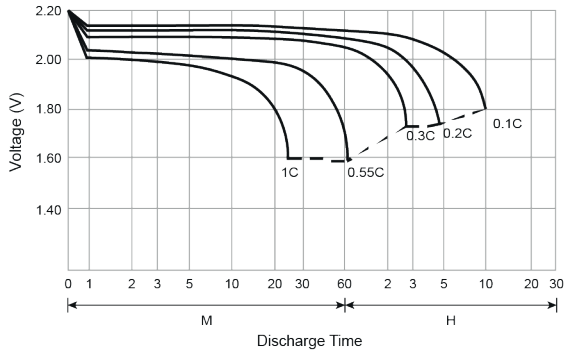
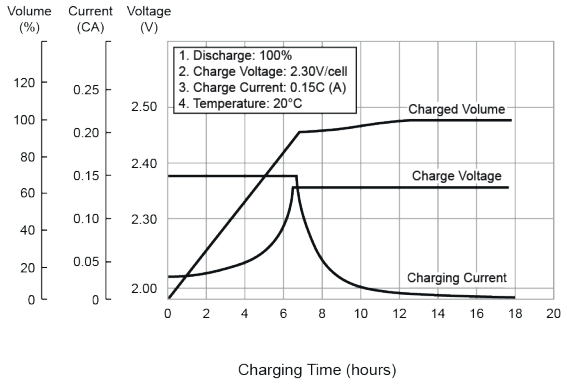
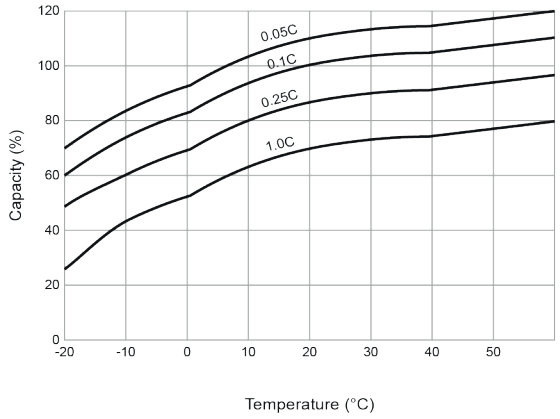
## Discharge Characteristics



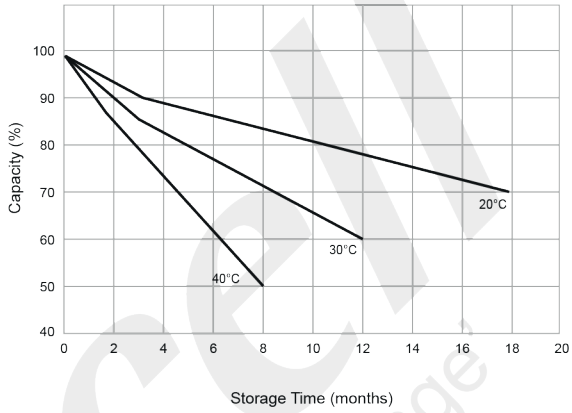

## Charging Characteristics



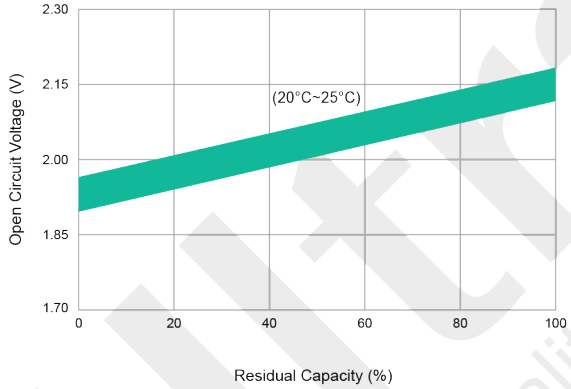

## Temperature Effects in Relation to Battery Capacity



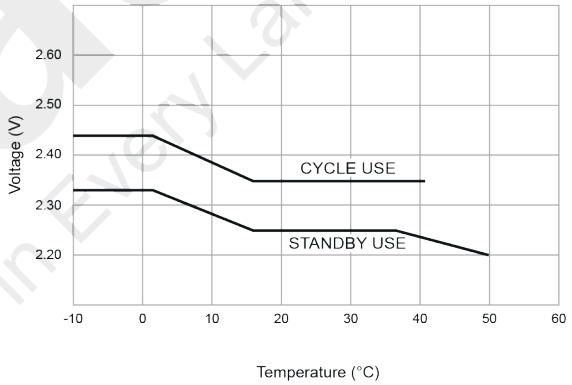

## Self Discharge Characteristics



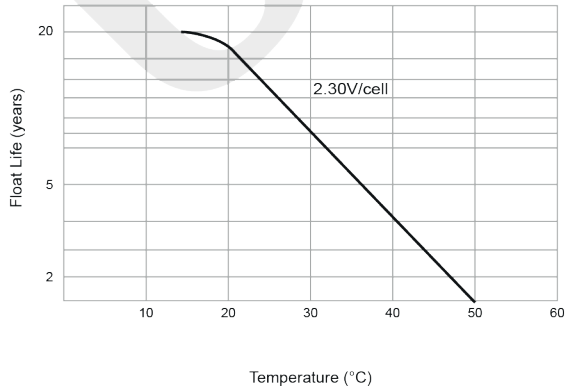

## Open Circuit Voltage and Residual Capacity (25ºC)



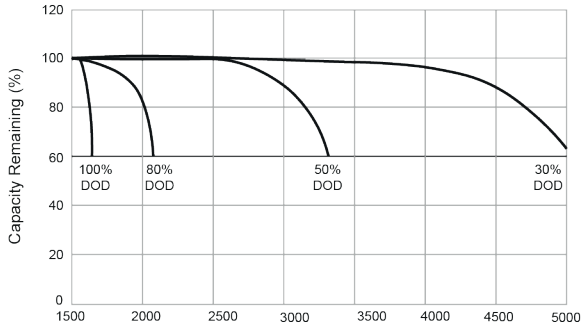

## Charge Voltage and Temperature




## Floating Life on Temperature




## Cycle Life on D.O.D (25ºC)

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