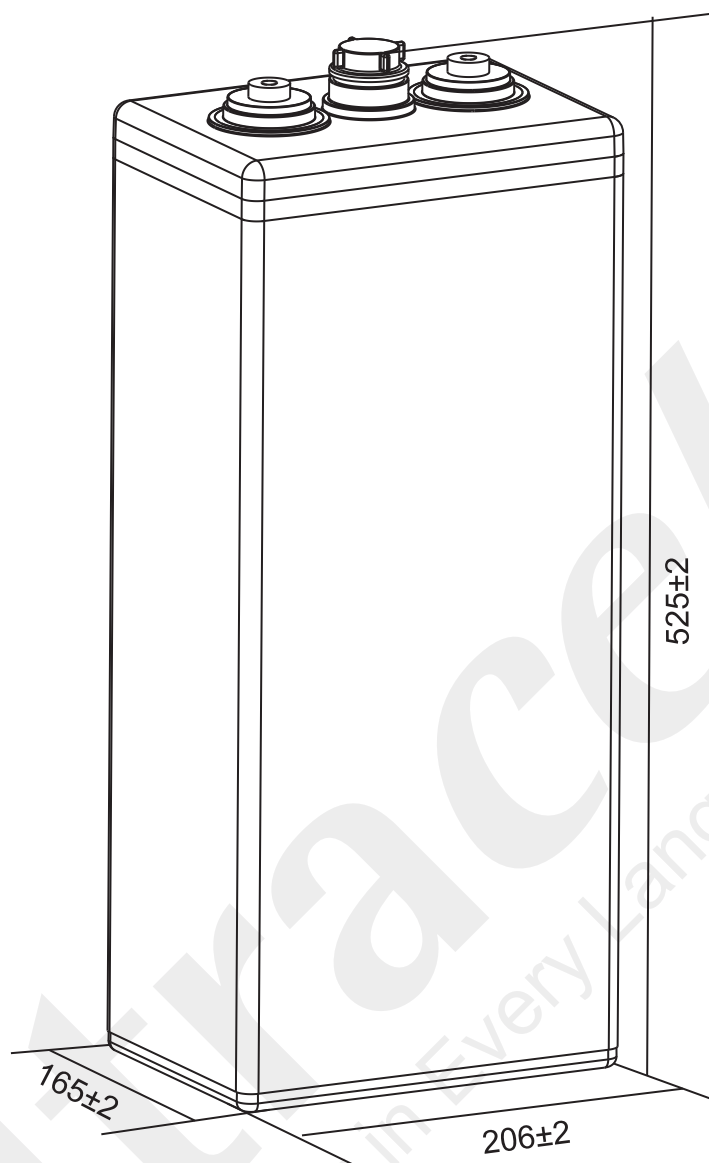
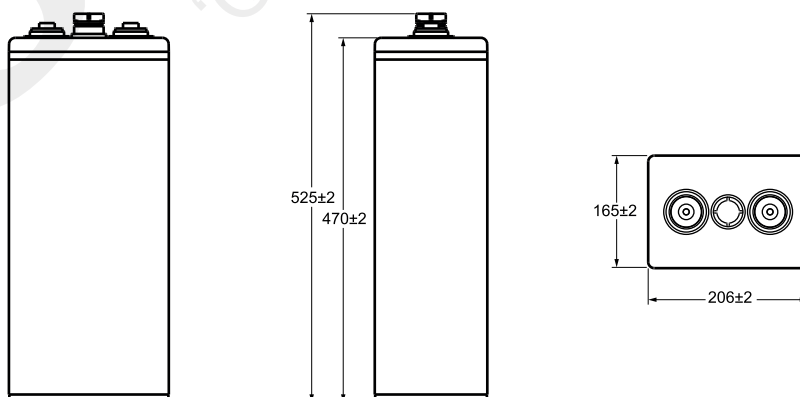




Technical Dimensions (mm)

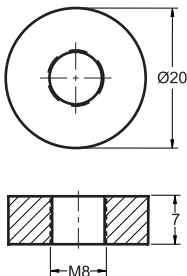


Image



Terminal Dimensions (mm)

Standard Terminal: F11



Technical Specification

Output	Nominal Voltage Nominal Capacity (10HR)	2V 500Ah
Terminal Type	Standard Terminal	F11
Container Material	Standard Option Flame Retardant Option (FR)	ABS ABS (UL94:VO)
Rated Capacity	(10HR 1.80V/cell, 25°C) (3HR 1.75V/cell, 25°C) (1HR 1.70V/cell, 25°C)	500.0 Ah/50.0A 382.0 Ah/128.0A 270.0 Ah/270.0A
Max Discharge Current	2500A (5s)	
Internal Resistance	Approx 0.7mΩ	
Discharge Characteristics	Operating Temp Range	Discharge: -15 ~ 50°C Charge: 10 ~ 45°C Storage: 10 ~ 30°C
	Nominal Operating Temp Range	20°C ± 5°C
	Cycle Use	Initial Charging Current less than 125.0A. Voltage 2.30V - 2.40V at 25°C Temp Coefficient -4mV/°C
	Standby Use	No limit on Initial Charging Current. Voltage 2.23V - 2.25V at 25°C Temp Coefficient -3mV/°C
	Capacity affected by Temperature	40°C 103% 25°C 100% 0°C 86%
Design Floating Life at 20°C	20 Years	

Self Discharge

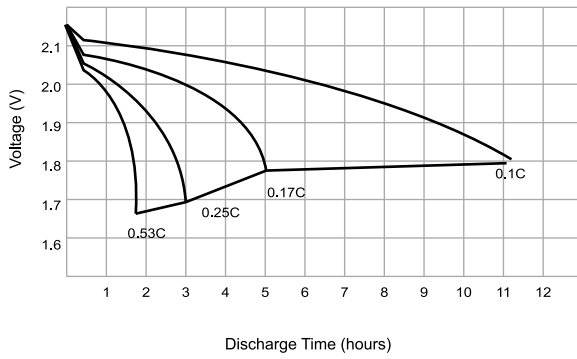
Ultracell® UZS batteries may be stored for up to 6 months at 25°C and then a refresh charge is required. For higher temperatures the time intervals will be shorter.

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

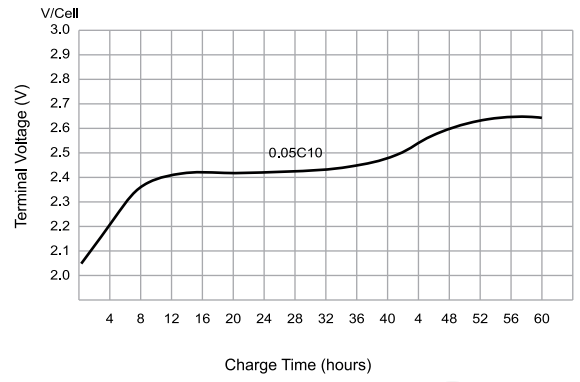
A = Amperes W = Watts

F.V/TIME	30	60	2	3	4	5	6	8	10	20	24	48	120
A W	min	min	hours	hours	hours	hours	hours	hours	hours	hours	hours	hours	hours
1.85V/cell	346	240	149	116	93.6	82.6	69.6	53.0	47.6	25.8	22.4	12.1	5.00
	638	450	286	226	182	160	136	105	92.6	50.0	45.0	24.4	10.2
1.80V/cell	366	256	159	124	99.6	87.6	74.0	56.6	50.0	27.0	23.6	12.1	---
	686	486	306	242	195	172	146	113	99.6	54.0	47.2	24.4	---
1.75V/cell	380	262	163	128	103	90.0	76.6	58.6	50.6	27.2	23.6	---	---
	710	500	312	250	202	178	151	116	100	54.6	47.6	---	---
1.70V/cell	390	270	165	129	103	90.6	77.0	59.0	50.6	27.2	23.8	---	---
	728	510	318	252	202	179	152	117	101	54.6	47.8	---	---

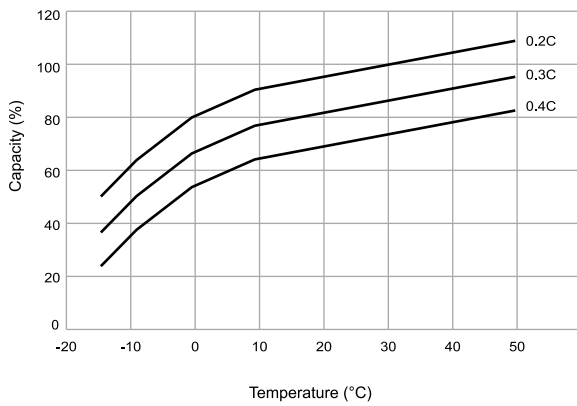
Discharge Characteristics



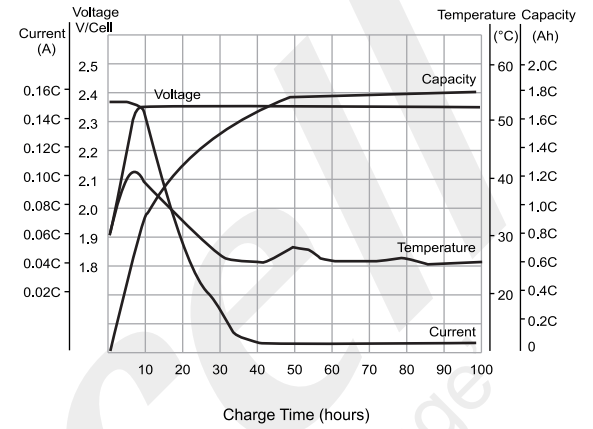
Charging Characteristics



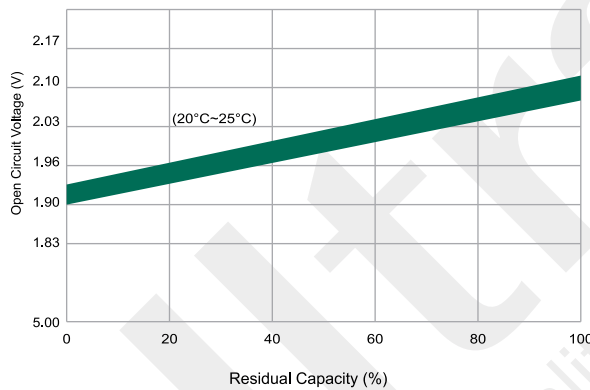
Temperature Effects in Relation to Battery Capacity



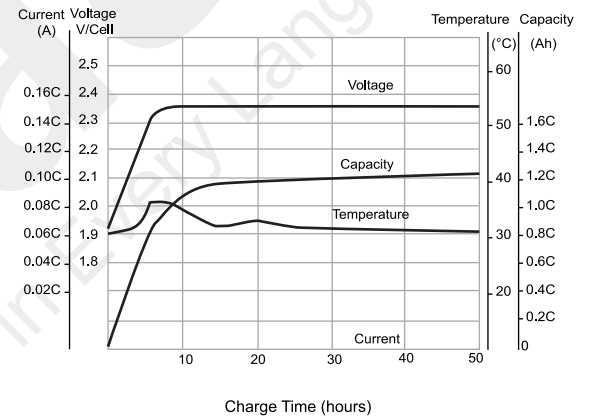
Initial Charging Characteristics



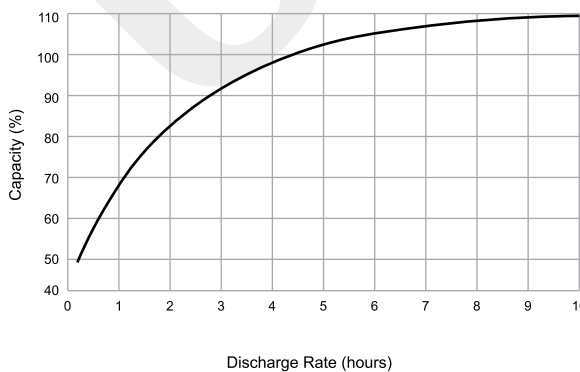
Open Circuit Voltage & Residual Capacity



Supplementary Charge Characteristics



Effects of Discharge Rate on Capacity



Cycle Life on D.O.D

