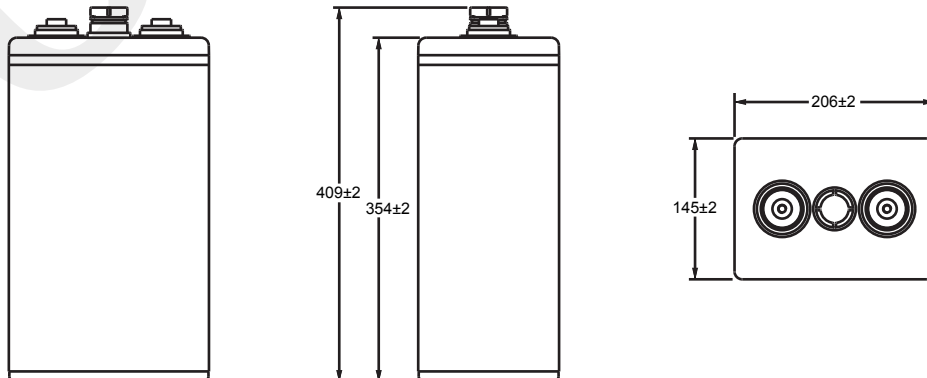


Technical Dimensions (mm)



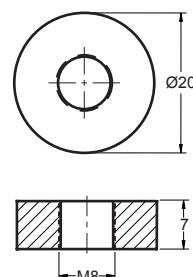


Image



Terminal Dimensions (mm)

Standard Terminal: F11



Technical Specification

Output	Nominal Voltage	2V
	Nominal Capacity (10HR)	300Ah
Terminal Type	Standard Terminal	F11
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	(120HR 1.80V/cell, 25°C)	420 Ah/4.20A
	(10HR 1.80V/cell, 25°C)	300 Ah/30.0A
	(3HR 1.75V/cell, 25°C)	230 Ah/76.5A
	(1HR 1.70V/cell, 25°C)	162 Ah/162.0A
Max Discharge Current	1500A (5s)	
Internal Resistance	Approx 0.9mΩ	
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 75A. 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.

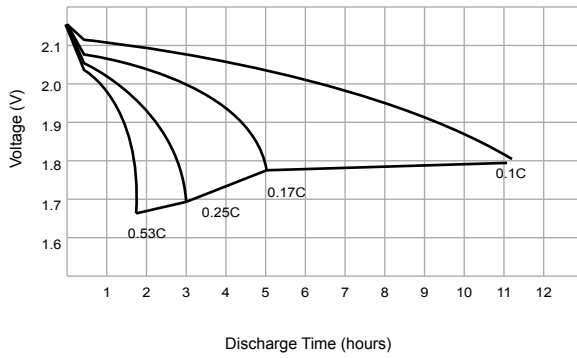
Constant Current Discharge / Constant Power Discharge At 25°C (Amperes & Watts/Cell)

A = Amperes W = Watts

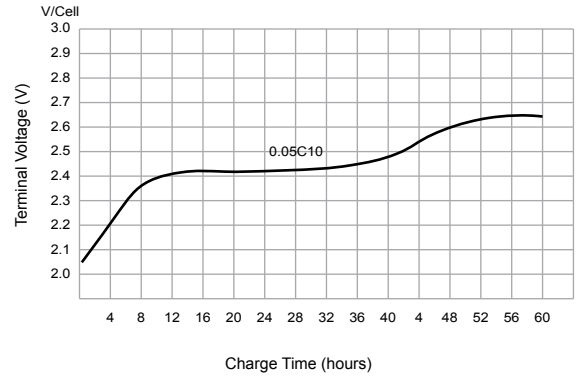
F.V/TIME	30	60	2	3	4	5	6	8	10	20	24	48	120
A	min	min	hours	hours	hours	hours	hours	hours	hours	hours	hours	hours	hours
1.85V/cell	208	144	89.4	69.6	56.1	49.5	41.7	31.8	28.5	15.5	13.4	7.23	3.00
	383	270	171	135	109	96.0	81.6	62.7	55.5	30.0	27.0	14.7	6.12
1.80V/cell	220	153	95.1	74.1	59.7	52.5	44.4	33.9	30.0	16.2	14.1	7.23	---
	412	291	183	146	117	103	87.6	67.5	59.7	32.4	28.4	14.7	---
1.75V/cell	228	158	97.5	76.5	61.5	54.0	45.9	35.1	30.3	16.4	14.2	---	---
	426	300	188	150	121	107	90.3	69.6	60.0	32.7	28.5	---	---
1.70V/cell	234	162	99.0	77.1	61.8	54.3	46.2	35.4	30.3	16.4	14.3	---	---
	437	306	191	152	122	107	91.2	69.9	60.6	32.7	28.7	---	---



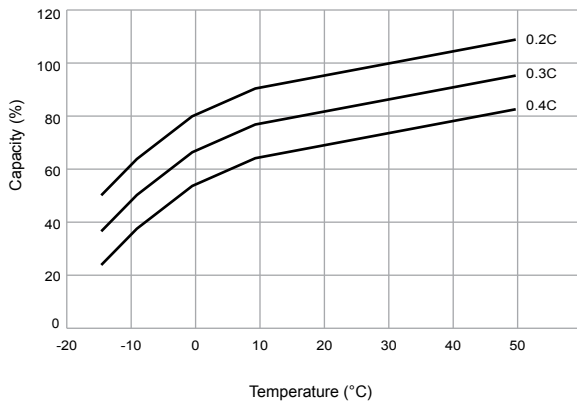
Discharge Characteristics



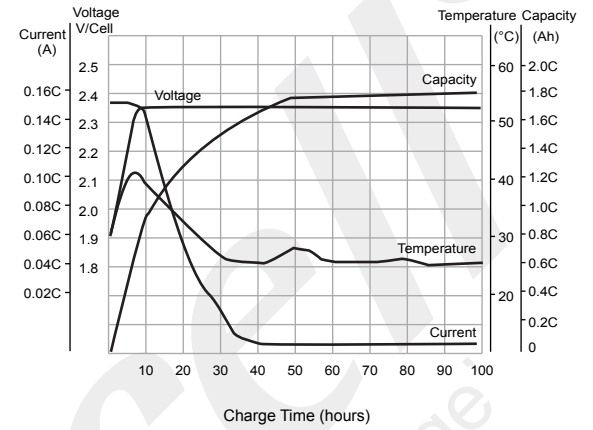
Charging Characteristics



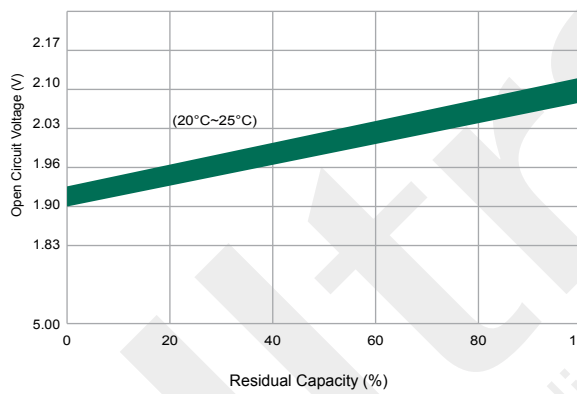
Temperature Effects in Relation to Battery Capacity



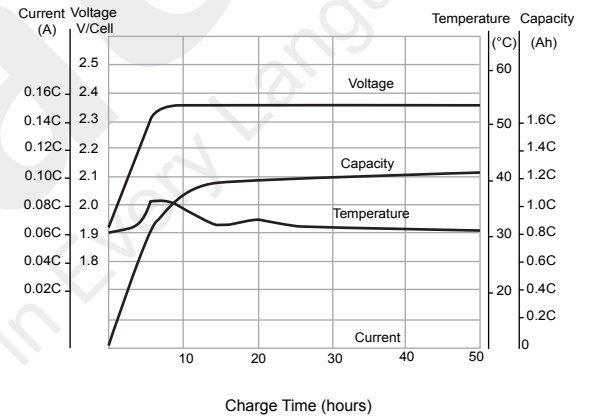
Initial Charging Characteristics



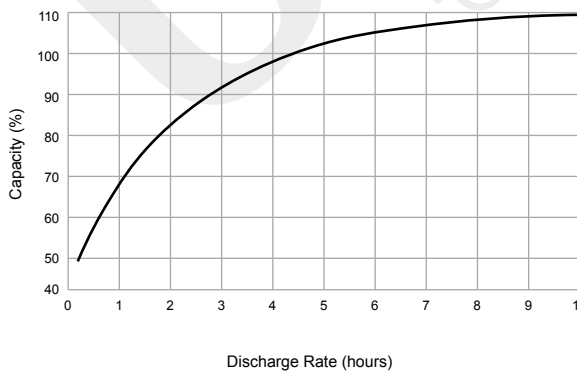
Open Circuit Voltage & Residual Capacity



Supplementary Charge Characteristics



Effects of Discharge Rate on Capacity



Cycle Life on D.O.D

