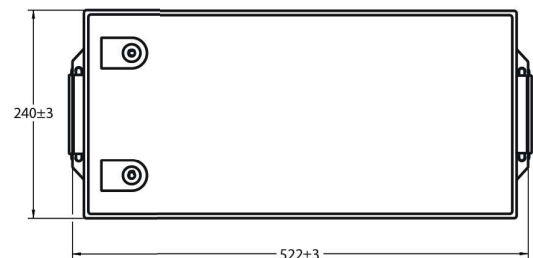
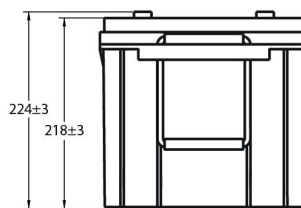
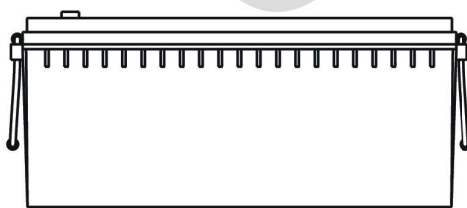


### Technical Dimensions (mm)



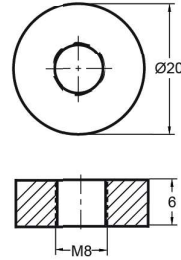


Image



Terminal Dimensions (mm)

Standard Terminal: F11



Technical Specification

<b>Output</b>	Nominal Voltage	12V
	Nominal Capacity (10HR)	200Ah
<b>Terminal Type</b>	Standard Terminal	F11
<b>Container Material</b>	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
<b>Rated Capacity</b>	(20HR 1.80V/cell, 25°C)	206.0 Ah/10.3A
	(10HR 1.80V/cell, 25°C)	200.0 Ah/20A
	(5HR 1.75V/cell, 25°C)	170.0 Ah/34A
	(3HR 1.75V/cell, 25°C)	147.6 Ah/49.2A
	(1HR 1.60V/cell, 25°C)	119.4 Ah/119.4A
<b>Max Discharge Current</b>	2000A (5s)	
<b>Internal Resistance</b>	Approx 2.9mΩ	
<b>Discharge Characteristics</b>	Operating Temp Range	Discharge: -15 ~ 50°C Charge: 0 ~ 40°C Storage: -15 ~ 40°C
	Nominal Operating Temp Range	25 ± 3°C
	Cycle Use	Initial Charging Current less than 60A. Voltage 14.4V ~ 15.0V @ 25°C Temp. Coefficient -30mV/°C
	Standby Use	No limit on initial charging current. Voltage 13.5V ~ 13.8V @ 25°C Temp. Coefficient -20mV/°C
	Capacity affected by Temperature	40°C 103% 25°C 100% 0°C 86%
<b>Design Floating Life at 20°C</b>	10 Years	

Self Discharge

Ultracell® UCG batteries may be stored for up to 9 months at 25°C and then a refresh charge is required. For higher temperatures the time intervals will be shorter.

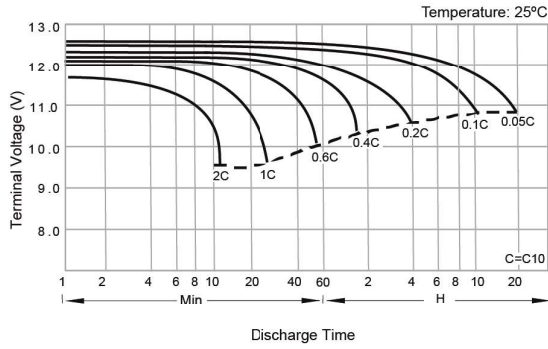
Constant Current Discharge / Constant Power Discharge At 25°C (Amperes & Watts/Cell)

A = Amperes W = Watts

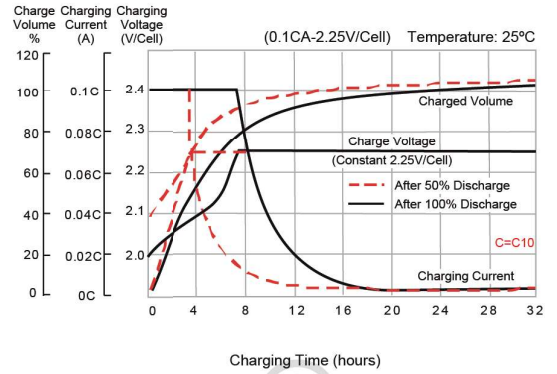
F.V/TIME	5	10	15	20	30	45	60	2	3	4	5	6	8	10	20
A W	min	min	min	min	min	min	min	hours	hours	hours	hours	hours	hours	hours	hours
<b>1.85V/cell</b>	322.4	253.5	215.6	180.3	142.5	108.2	89.5	56.9	44.2	36.4	30.9	26.9	21.9	18.6	10.0
	594.1	471.9	405.4	342.5	273.0	209.0	173.5	110.9	86.5	71.3	60.7	53.1	43.4	36.9	19.9
<b>1.80V/cell</b>	426.5	319.2	256.7	210.0	164.0	122.8	99.6	61.9	47.5	38.7	33.2	28.9	23.4	20.0	10.3
	778.1	587.6	476.5	393.4	310.4	235.3	192.0	119.9	92.4	75.6	65.0	56.8	46.1	39.7	20.5
<b>1.75V/cell</b>	490.8	358.0	286.1	230.6	174.8	129.9	105.4	64.8	49.2	40.0	34.0	29.7	23.8	20.2	10.4
	875.6	647.9	524.3	427.5	328.0	246.8	202.1	125.2	95.5	77.9	66.4	58.2	46.8	40.0	20.6
<b>1.70V/cell</b>	546.8	394.7	309.1	245.2	184.4	136.4	110.0	68.0	50.9	41.2	34.9	30.3	24.1	20.3	10.6
	947.0	697.2	557.6	450.4	343.5	257.7	210.1	130.9	98.5	80.0	68.0	59.3	47.4	40.2	21.0
<b>1.65V/cell</b>	597.2	421.9	325.5	258.0	193.1	140.5	113.9	69.9	52.8	42.4	35.7	31.0	24.5	20.5	10.7
	1017.5	736.9	581.5	469.4	356.5	263.3	216.1	133.7	101.7	82.1	69.4	60.4	48.0	40.5	21.2
<b>1.60V/cell</b>	664.0	461.8	350.9	277.1	205.2	148.5	119.4	72.5	54.7	43.4	36.4	31.6	24.8	20.8	10.8
	1105.2	788.1	616.6	498.6	375.7	276.6	225.4	138.0	104.8	83.7	70.5	61.5	48.5	41.1	21.3



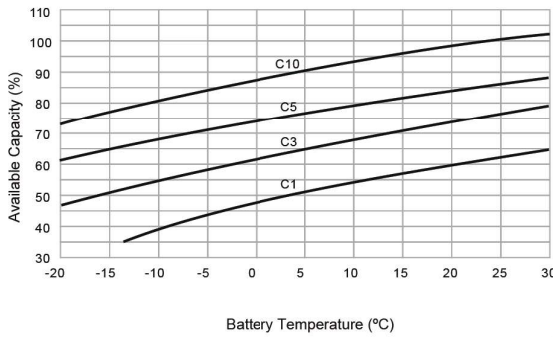
## Discharge Characteristics



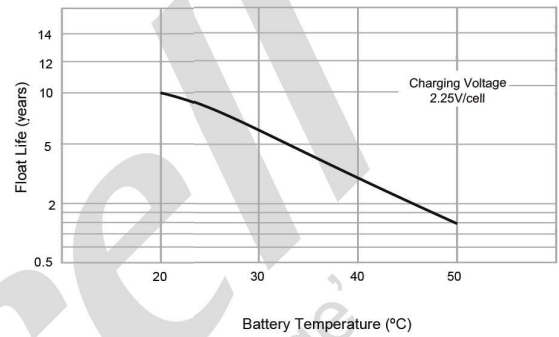
## Float Charging Characteristics



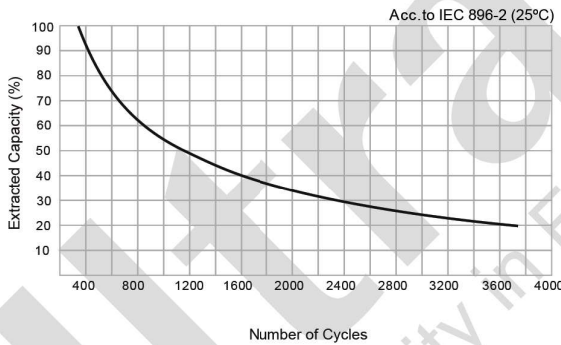
## Temperature Effects in Relation to Battery Capacity



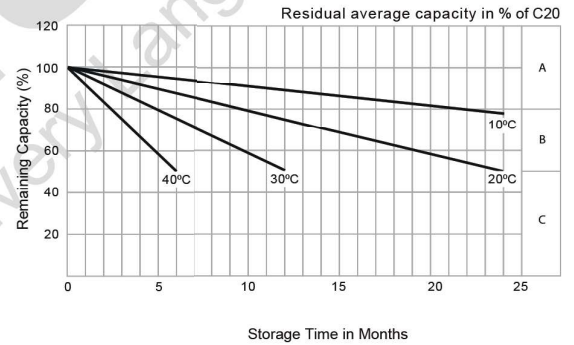
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## General Relation of Capacity vs. Storage Time



## General Relation of Capacity vs. Storage Time (Notes)

- A) No supplementary charge required.  
(Carryout supplementary charge before use if 100% capacity is required.)
- B) Supplementary charge required before use. Optional charging way as below:
  1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
  2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
  3. Charged for 8 ~ 10 hours at limited current 0.05 CA.
- C) Supplementary charge may often fail to recover the capacity.  
The battery should never be left standing till this is reached.