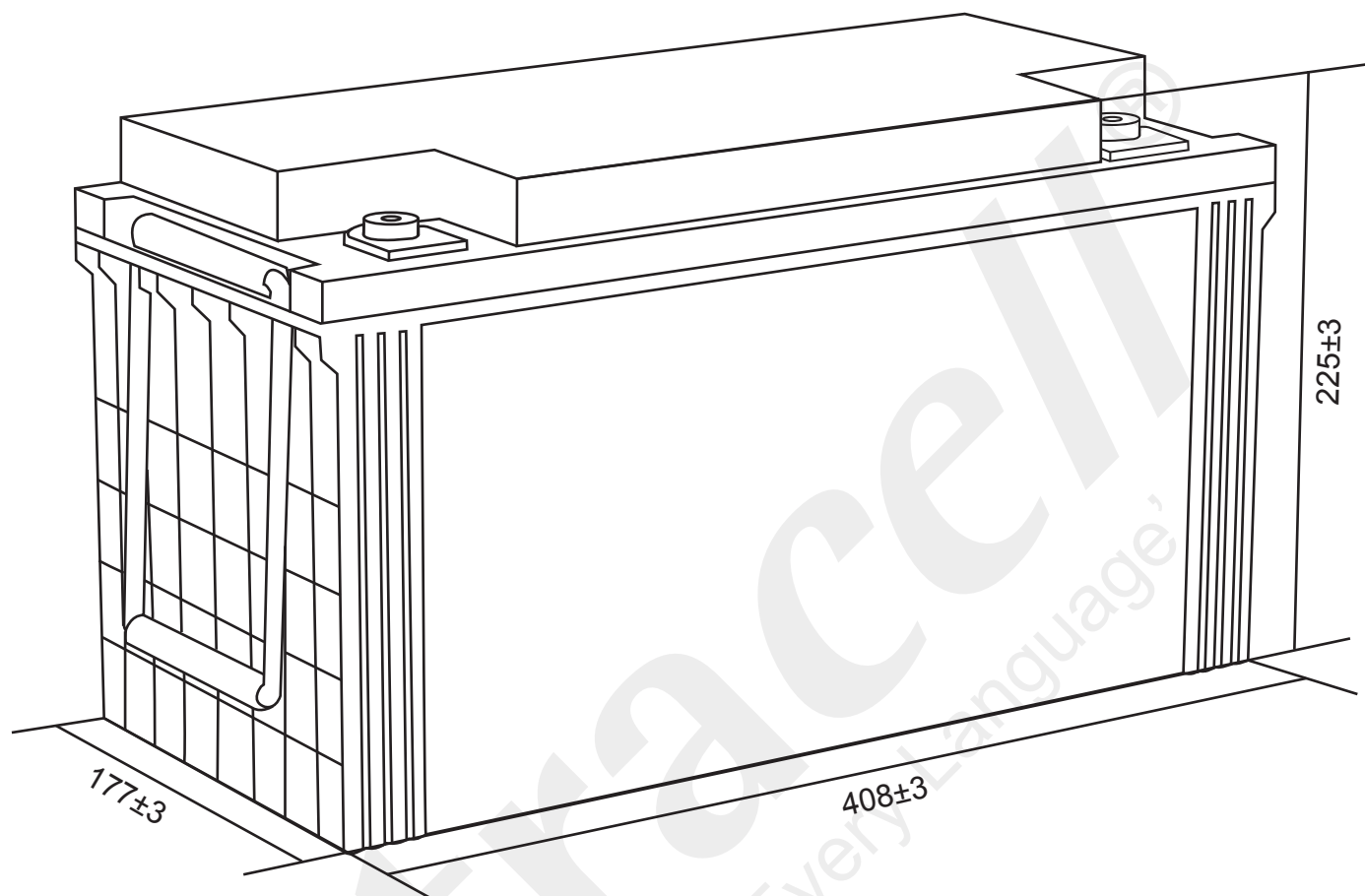
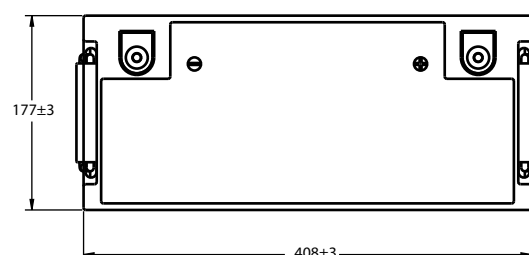
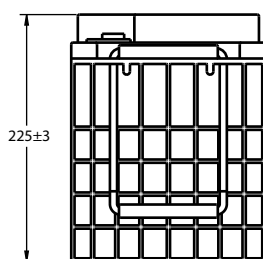




Technical Dimensions (mm)

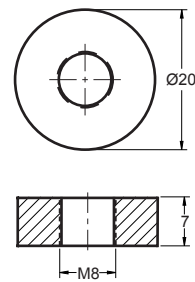


Image

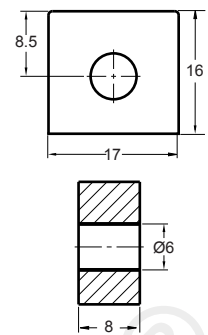


Terminal Dimensions (mm)

Standard Terminal: F11



Optional Terminal: F10



Technical Specification

Output	Nominal Voltage Nominal Capacity (10HR)	12V 120Ah
Terminal Type	Standard Terminal Optional Terminal	F11 F10
Container Material	Standard Option Flame Retardant Option (FR)	ABS ABS (UL94:VO)
Rated Capacity	(20HR 1.80V/cell, 25°C) (10HR 1.80V/cell, 25°C) (5HR 1.75V/cell, 25°C) (3HR 1.75V/cell, 25°C) (1HR 1.60V/cell, 25°C)	123.6 Ah/6.18A 120.0 Ah/12.0A 102.0 Ah/20.4A 88.5 Ah/29.5A 71.6 Ah/71.6A
Max Discharge Current	1200A (5s)	
Internal Resistance	Approx 4mΩ	
Discharge Characteristics	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 36A. Voltage 14.4V ~ 15.0V @ 25°C Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 36A. Voltage 13.5V ~ 13.8V @ 25°C Temp. Coefficient -20mV/°C
	Capacity affected by Temperature	40°C 103% 25°C 100% 0°C 86%
Design Floating Life at 20°C	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.

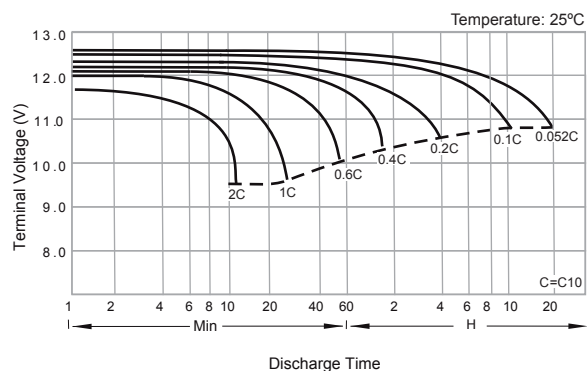
Constant Current Discharge / Constant Power Discharge At 25°C (Amperes & Watts/Cell)

A = Amperes W = Watts

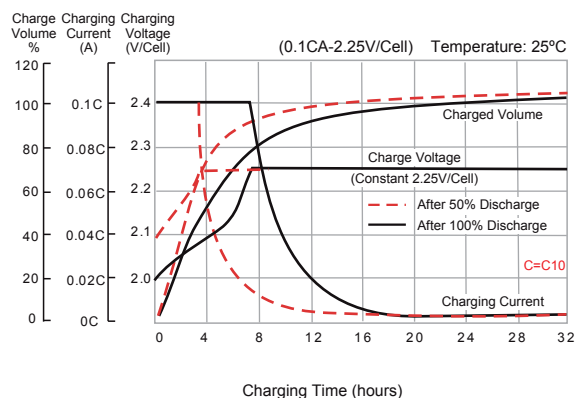
F.V/TIME	5	10	15	20	30	45	60	2	3	4	5	6	8	10	20
A	min	min	min	min	min	min	min	hours	hours	hours	hours	hours	hours	hours	hours
1.85V/cell	193.5	152.1	129.3	108.2	85.5	64.9	53.7	34.2	26.5	21.8	18.5	16.1	13.1	11.1	6.00
	356.4	283.1	243.2	205.5	163.8	125.4	104.1	66.5	51.9	42.8	36.4	31.9	26.0	22.1	11.9
1.80V/cell	255.9	191.5	154.0	126.0	98.4	73.7	59.8	37.1	28.5	23.2	19.9	17.3	14.0	12.0	6.18
	466.9	352.6	285.9	236.1	186.2	141.2	115.2	71.9	55.5	45.3	39.0	34.1	27.7	23.8	12.3
1.75V/cell	294.5	214.8	171.7	138.4	104.9	77.9	63.2	38.9	29.5	24.0	20.4	17.8	14.3	12.1	6.24
	525.4	388.8	314.6	256.5	196.8	148.1	121.3	75.1	57.3	46.7	39.9	34.9	28.1	24.0	12.4
1.70V/cell	328.1	236.8	185.5	147.1	110.6	81.8	66.0	40.8	30.6	24.7	21.0	18.2	14.4	12.2	6.36
	568.2	418.3	334.5	270.2	206.1	154.6	126.1	78.5	59.1	48.0	40.8	35.6	28.4	24.1	12.6
1.65V/cell	358.3	253.1	195.3	154.8	115.9	84.3	68.3	41.9	31.7	25.5	21.4	18.6	14.7	12.3	6.42
	610.5	442.1	348.9	281.6	213.9	158.0	129.7	80.2	61.0	49.2	41.6	36.2	28.8	24.3	12.7
1.60V/cell	398.4	277.1	210.6	166.2	123.1	89.1	71.6	43.5	32.8	26.0	21.8	19.0	14.9	12.5	6.48
	663.1	472.9	369.9	299.2	225.4	166.0	135.2	82.8	62.9	50.2	42.3	36.9	29.1	24.7	12.8



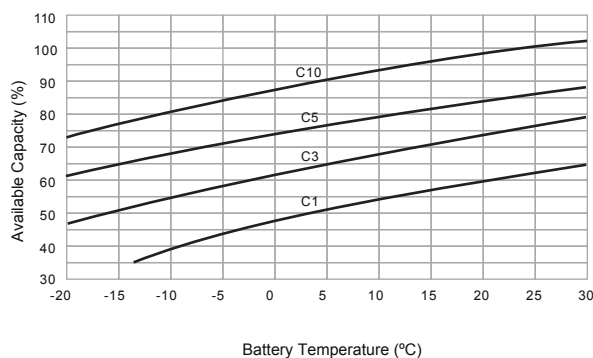
Discharge Characteristics



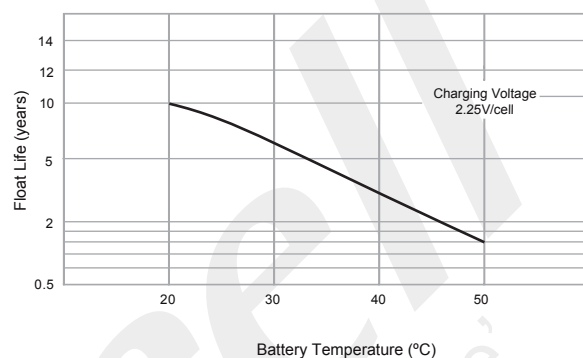
Float Charging Characteristics



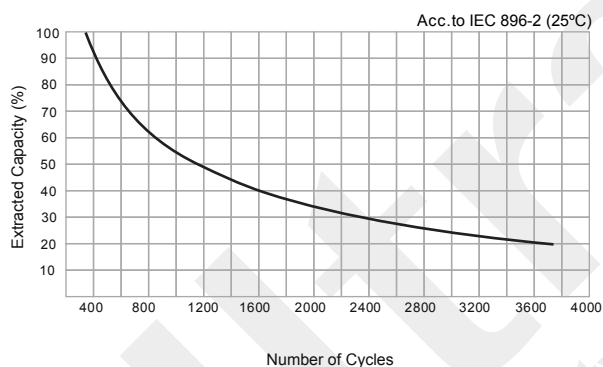
Temperature Effects in Relation to Battery Capacity



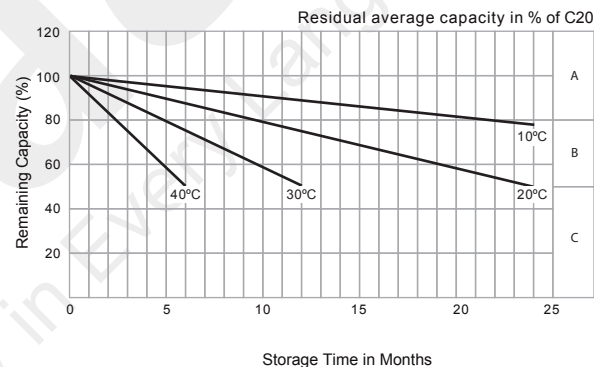
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity vs. Storage Time



General Relation of Capacity vs. Storage Time (Notes)

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