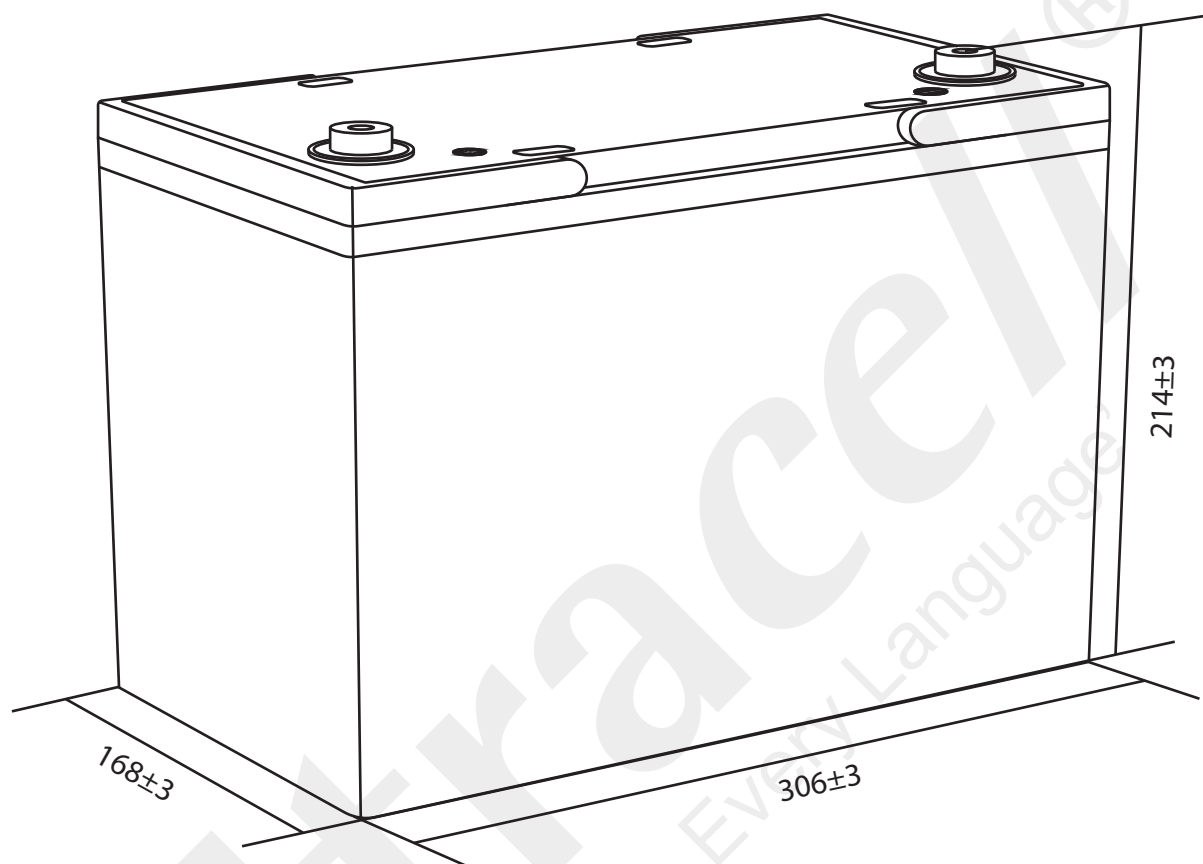
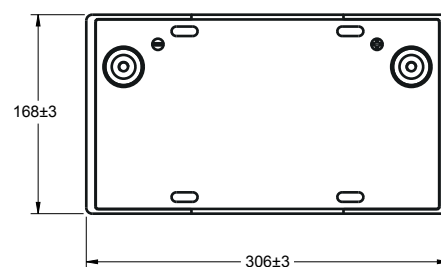
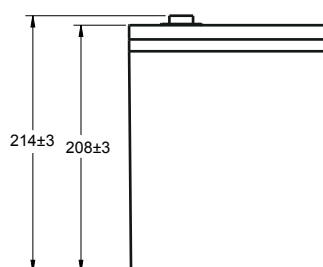
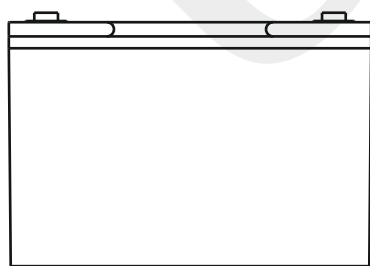




Technical Dimensions (mm)

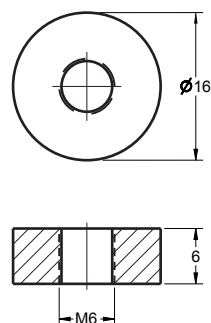


Image



Terminal Dimensions (mm)

Standard Terminal: F6



Technical Specification

Output	Nominal Voltage Nominal Capacity (10HR)	12V 90Ah
Terminal Type	Standard Terminal	F6
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)	92.8 Ah/4.64A 90 Ah/9.0A 76.5 Ah/15.3A 66.3 Ah/22.1A 53.7 Ah/53.7A
Max Discharge Current	1080A (5s)	
Internal Resistance	Approx 5.5mΩ	
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 25.5A. 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%
Design Floating Life at 20°C	10 Years	

Self Discharge

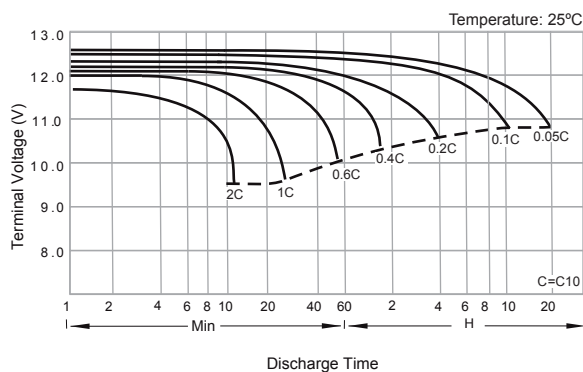
Ultracell® UCG batteries may be stored for up to 9 months at 25°C and then a refresh charge is required. For higher temperatures the time intervals will be shorter.

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

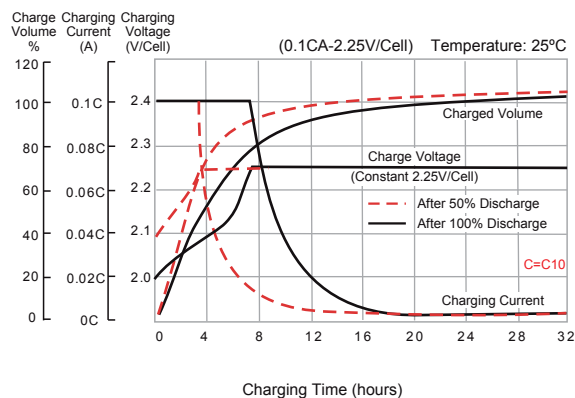
A = Amperes W = Watts

F.V/TIME	5 min	10 min	15 min	20 min	30 min	45 min	60 min	2 hours	3 hours	4 hours	5 hours	6 hours	8 hours	10 hours	20 hours
A W															
1.85V/cell	145.1 267.3	114.1 212.3	97.0 182.4	81.2 154.1	64.1 122.9	48.7 94.1	40.3 78.1	25.7 49.9	19.9 38.9	16.4 32.1	13.9 27.4	12.2 23.9	9.90 19.5	8.35 16.6	4.50 8.95
1.80V/cell	192.0 350.1	143.6 264.4	115.5 214.5	94.5 177.0	73.8 139.7	55.3 105.9	44.8 86.4	27.8 53.9	21.4 41.6	17.5 34.0	14.9 29.3	13.0 25.6	10.5 20.8	9.00 17.8	4.64 9.18
1.75V/cell	220.9 394.0	161.1 291.6	128.8 236.0	103.8 192.3	78.7 147.6	58.4 111.1	47.4 91.0	29.2 56.3	22.1 42.9	18.0 35.0	15.3 29.9	13.3 26.2	10.7 21.1	9.09 18.0	4.68 9.27
1.70V/cell	246.1 426.2	177.7 313.7	139.1 250.9	110.3 202.7	83.0 154.6	61.4 116.0	49.5 94.5	30.6 59.0	23.0 44.3	18.5 36.0	15.8 30.6	13.7 26.6	10.8 21.3	9.18 18.1	4.77 9.45
1.65V/cell	268.7 457.9	189.8 331.6	146.4 261.6	116.1 211.2	86.9 160.4	63.2 118.5	51.3 97.3	31.4 60.2	23.8 45.8	19.1 36.9	16.1 31.2	14.0 27.2	11.0 21.6	9.27 18.3	4.82 9.54
1.60V/cell	298.8 497.3	207.8 354.7	158.0 277.5	124.7 224.4	92.3 169.0	66.9 124.5	53.7 101.4	32.6 62.1	24.6 47.2	19.5 37.6	16.4 31.7	14.2 27.7	11.2 21.9	9.36 18.5	4.86 9.63

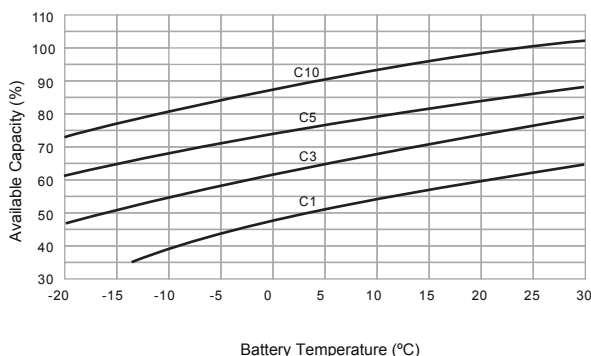
Discharge Characteristics



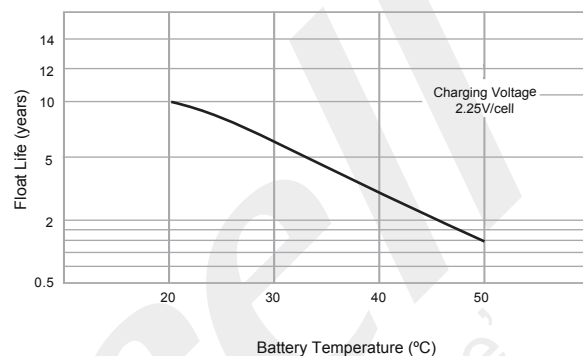
Float Charging Characteristics



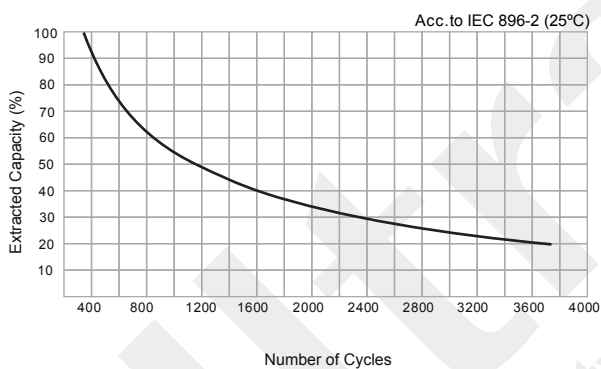
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity vs. Storage Time

