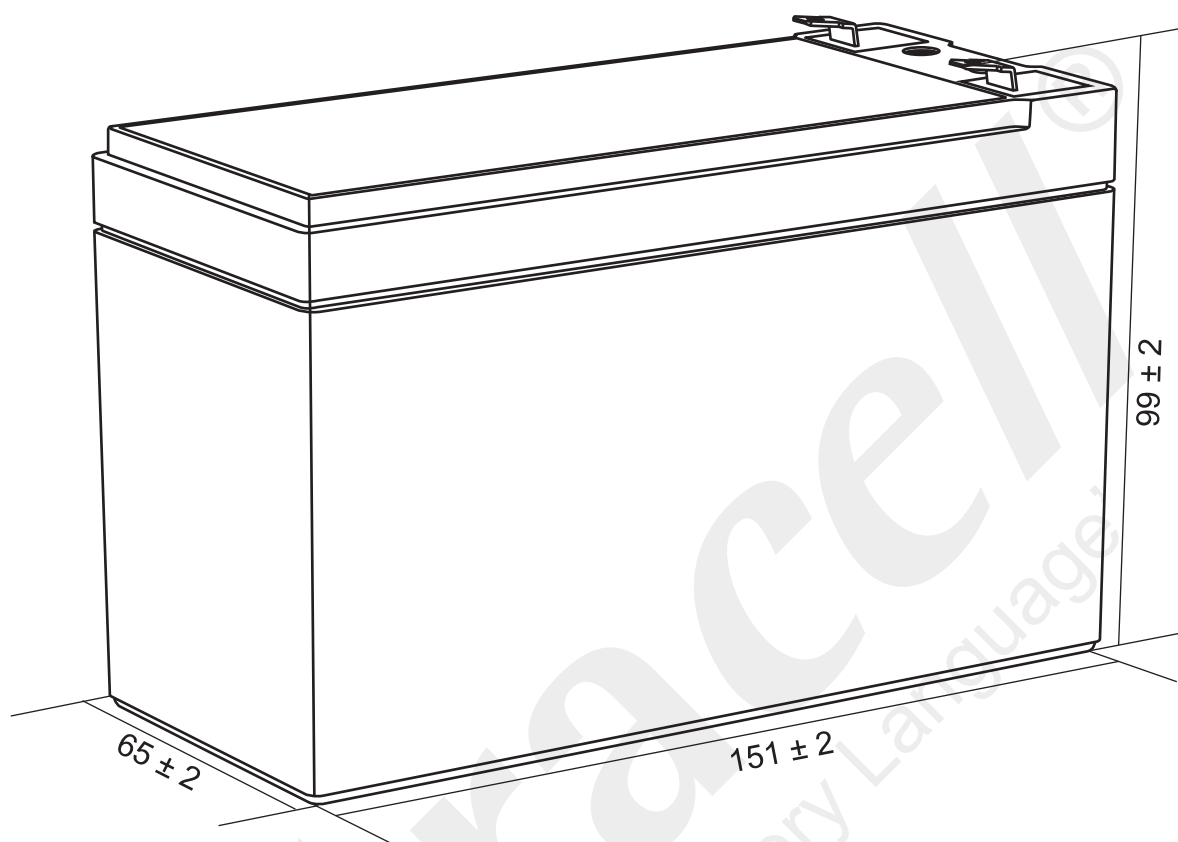
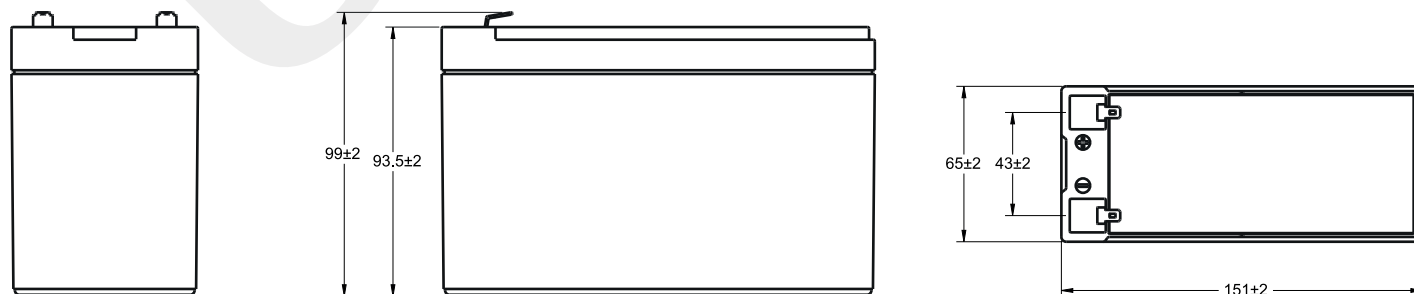




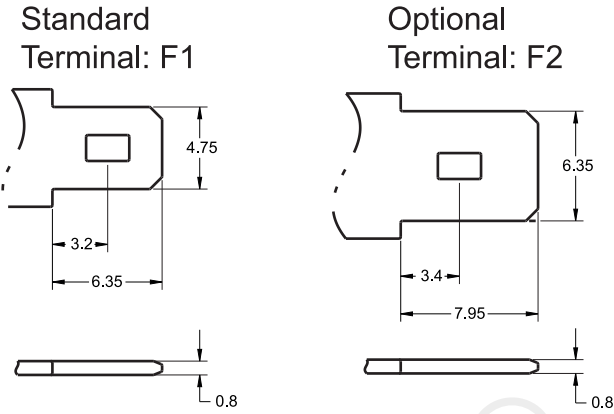
Technical Dimensions (mm)



Image



Terminal Dimensions (mm)



Technical Specification

Output	Nominal Voltage	12V
	Nominal Capacity (20HR)	7Ah
Terminal Type	Standard Terminal	F1
	Optional Terminal	F2
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	(20HR 1.75V/cell, 25°C)	7.00 Ah/0.350A
	(10HR 1.75V/cell, 25°C)	6.92 Ah/0.692A
	(5HR 1.75V/cell, 25°C)	6.40 Ah/1.28A
	(3HR 1.75V/cell, 25°C)	5.76 Ah/1.92A
	(1HR 1.70V/cell, 25°C)	4.88 Ah/4.88A
Max Discharge Current	105A (5s)	
Internal Resistance	Approx 18mΩ	
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 2.1A. 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	15 Years	

Self Discharge

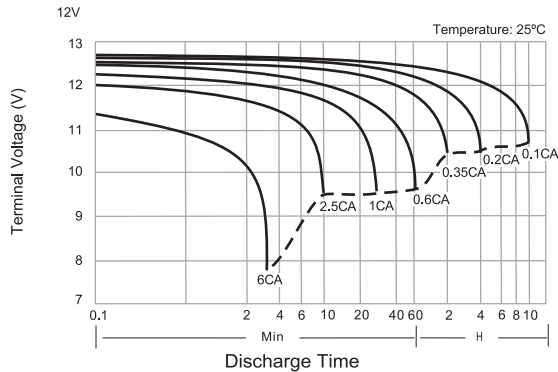
Ultracell® UXL batteries may be stored for up to 6 months at 25°C and then a refresh charge is required. For higher temperatures the time intervals will be shorter.

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

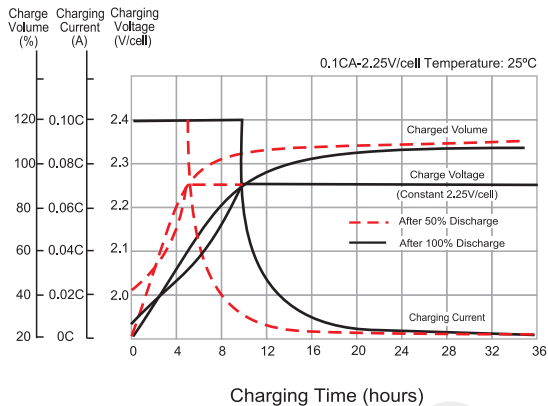
		A = Amperes W = Watts													
F.V/TIME		10 min	15 min	20 min	30 min	45 min	60 min	2 hours	3 hours	4 hours	5 hours	6 hours	8 hours	10 hours	20 hours
A	W														
1.85V/cell		15.5	12.3	10.0	7.46	5.48	4.47	2.60	1.86	1.47	1.24	1.06	0.837	0.676	0.343
		29.7	23.6	19.3	14.4	10.6	8.70	5.08	3.66	2.90	2.46	2.11	1.66	1.34	0.686
1.80V/cell		16.3	12.8	10.3	7.65	5.58	4.56	2.64	1.89	1.49	1.26	1.08	0.847	0.684	0.347
		31.0	24.4	19.8	14.7	10.8	8.84	5.15	3.71	2.93	2.49	2.13	1.68	1.36	0.693
1.75V/cell		17.1	13.2	10.6	7.83	5.70	4.64	2.68	1.92	1.51	1.28	1.09	0.857	0.692	0.350
		32.3	25.2	20.3	15.0	11.0	8.96	5.21	3.76	2.97	2.52	2.15	1.70	1.37	0.700
1.70V/cell		17.9	13.7	11.0	8.01	5.80	4.72	2.72	1.95	1.53	1.29	1.11	0.868	0.700	0.354
		33.6	25.9	20.8	15.3	11.1	9.09	5.28	3.80	3.00	2.54	2.18	1.72	1.39	0.708
1.65V/cell		18.4	14.0	11.2	8.12	5.87	4.77	2.74	1.96	1.54	1.30	1.11	0.875	0.705	0.356
		34.4	26.4	21.1	15.4	11.2	9.17	5.32	3.83	3.02	2.56	2.19	1.73	1.40	0.712
1.60V/cell		19.5	14.6	11.6	8.37	6.03	4.88	2.80	2.00	1.57	1.33	1.13	0.889	0.716	0.361
		36.2	27.4	21.8	15.8	11.5	9.34	5.41	3.90	3.07	2.60	2.23	1.75	1.42	0.722



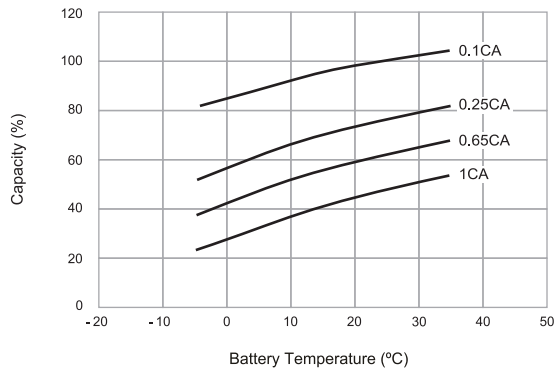
Discharge Characteristics



Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

