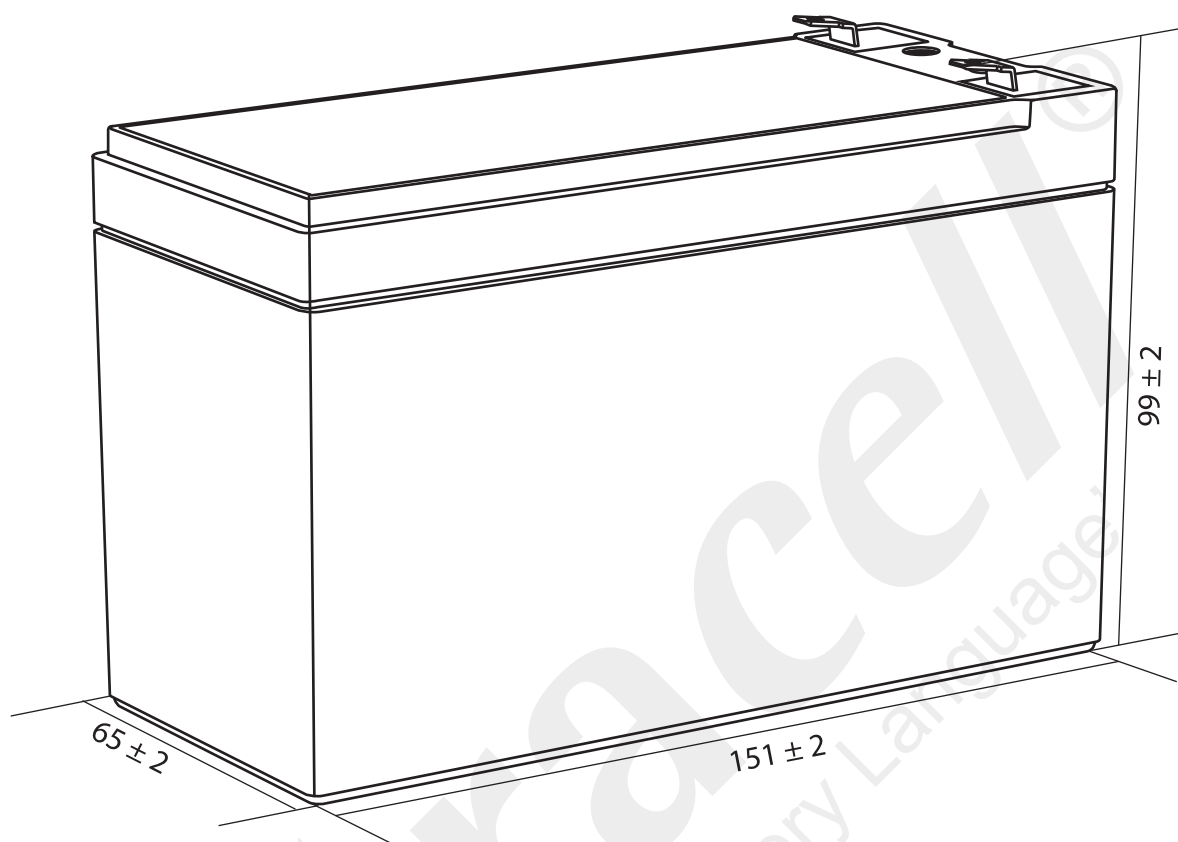
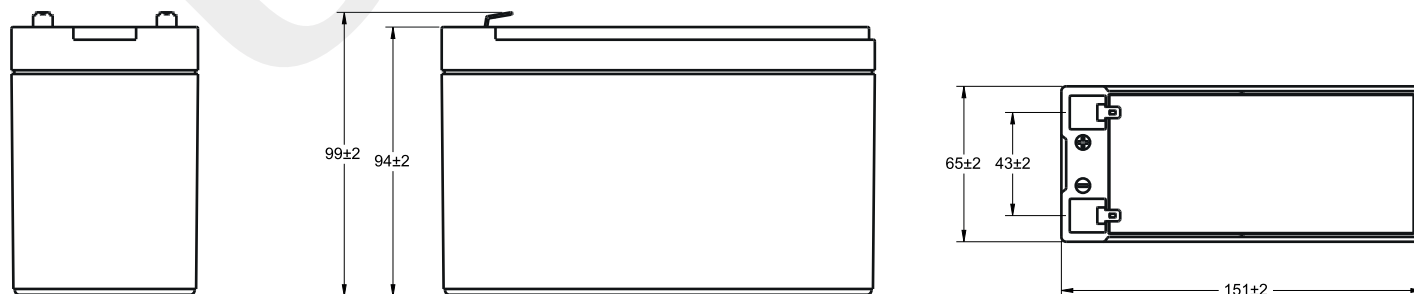




Technical Dimensions (mm)

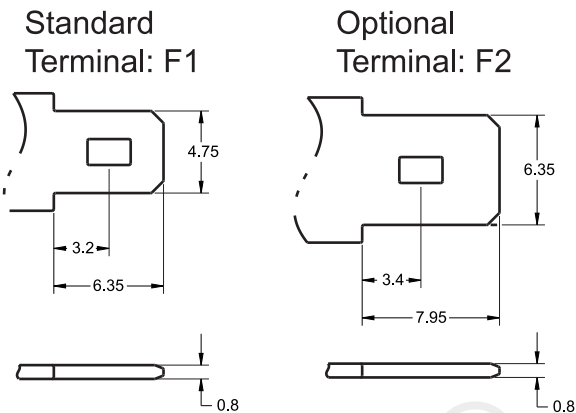




Image



Terminal Dimensions (mm)



Technical Specification

Output	Nominal Voltage	12V
	Nominal Capacity (20HR)	9Ah
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)	9.00 Ah/0.450A
	(10HR 1.75V/cell, 25°C)	8.34 Ah/0.834A
	(5HR 1.75V/cell, 25°C)	7.47 Ah/1.49A
	(3HR 1.75V/cell, 25°C)	6.75 Ah/2.25A
	(1HR 1.60V/cell, 25°C)	6.17 Ah/6.17A
Max Discharge Current	129A (5s)	
Internal Resistance	Approx 19mΩ	
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 2.70A. 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

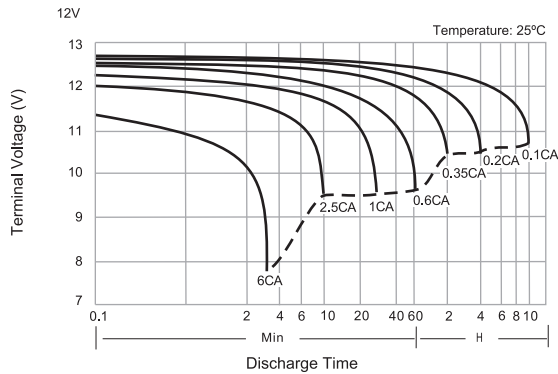
Ultracell® UXL batteries may be stored for up to 6 months at 25°C and then a refresh charge is required. For higher temperatures the time intervals will be shorter.

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

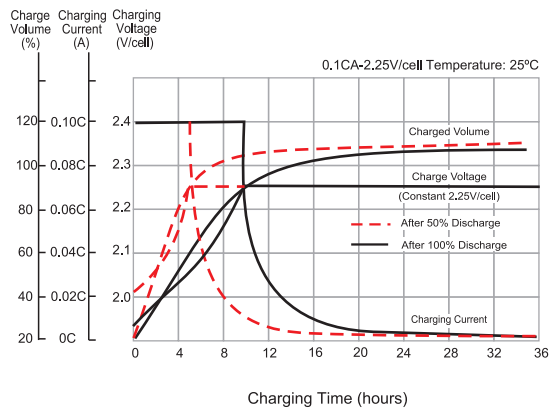
A = Amperes W = Watts																
F.V/TIME	5 min	10 min	15 min	20 min	30 min	45 min	60 min	2 hours	3 hours	4 hours	5 hours	6 hours	8 hours	10 hours	20 hours	
A	W															
1.85V/cell	30.5	21.3	15.9	13.0	10.0	7.16	5.59	3.09	2.17	1.70	1.42	1.24	0.969	0.803	0.441	
	56.9	39.9	29.9	24.4	19.0	13.7	10.8	5.98	4.22	3.32	2.80	2.42	1.91	1.59	0.873	
1.80V/cell	33.9	22.9	16.9	13.7	10.4	7.34	5.74	3.15	2.21	1.74	1.45	1.27	0.989	0.822	0.445	
	61.3	42.1	31.3	25.7	19.6	13.9	11.0	6.06	4.27	3.38	2.84	2.47	1.96	1.62	0.880	
1.75V/cell	37.5	24.5	17.8	14.3	10.7	7.53	5.86	3.2	2.25	1.78	1.49	1.29	1.02	0.834	0.450	
	67.1	44.5	32.6	26.6	20.0	14.2	11.2	6.15	4.34	3.45	2.90	2.51	1.99	1.64	0.888	
1.70V/cell	41.2	26.0	18.4	14.8	11.0	7.68	5.95	3.26	2.29	1.81	1.52	1.32	1.04	0.849	0.458	
	72.8	46.6	33.3	27.4	20.5	14.4	11.4	6.25	4.42	3.51	2.95	2.56	2.03	1.67	0.903	
1.65V/cell	43.4	27.1	19.2	15.4	11.2	7.86	6.06	3.31	2.33	1.85	1.55	1.35	1.05	0.864	0.464	
	75.6	47.8	34.4	28.2	20.8	14.7	11.5	6.33	4.49	3.55	3.01	2.61	2.06	1.70	0.915	
1.60V/cell	46.5	28.2	20.0	16.1	11.6	7.99	6.17	3.36	2.37	1.89	1.58	1.37	1.07	0.877	0.467	
	79.4	49.1	35.2	28.9	21.1	14.8	11.6	6.39	4.54	3.62	3.06	2.66	2.09	1.72	0.919	



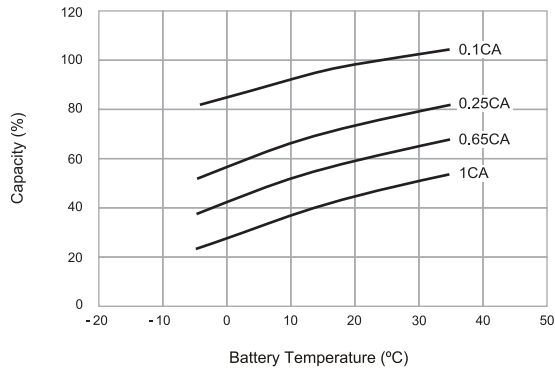
Discharge Characteristics



Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

