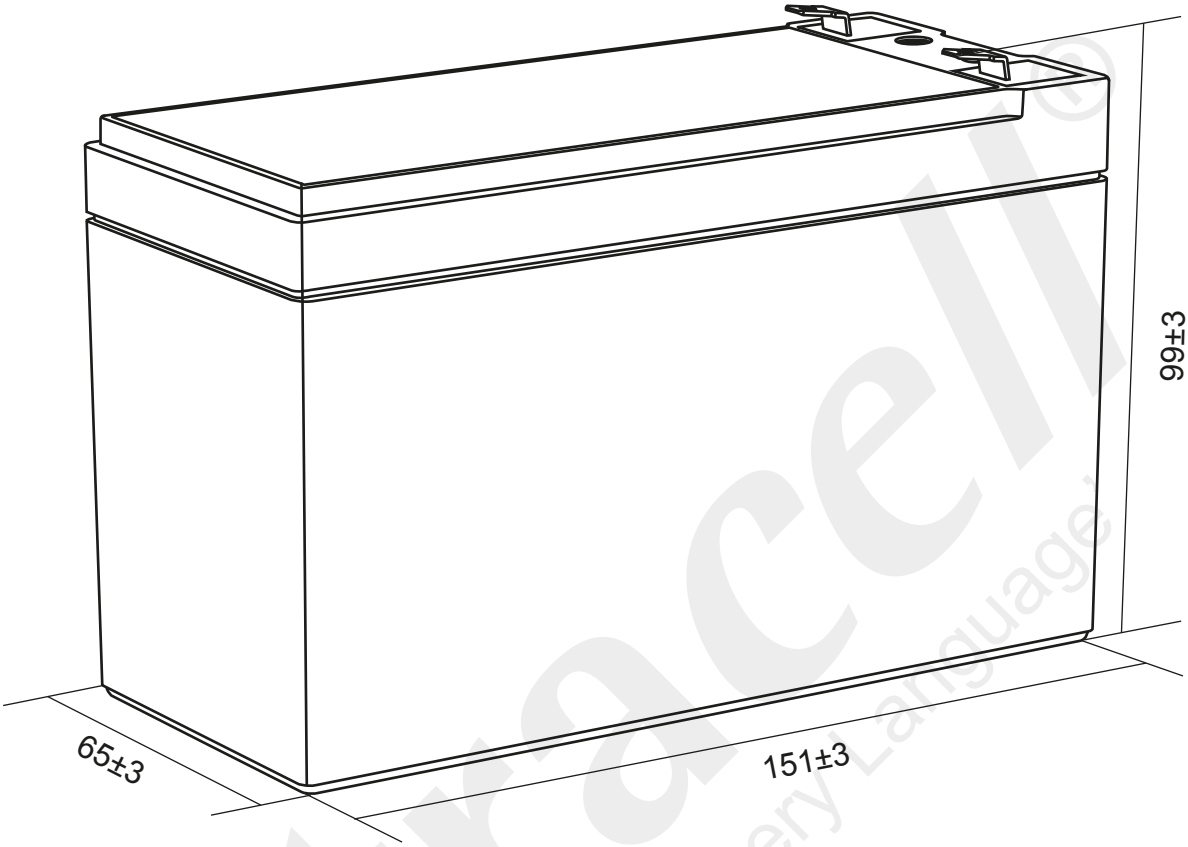
Ultracell®

'Quality in Every Language'

UXL9-12

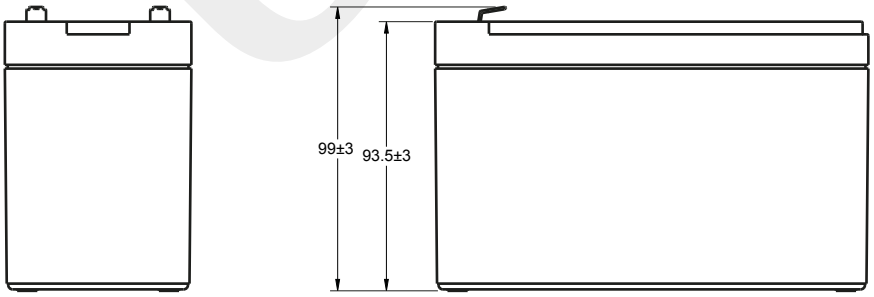
12V 9Ah

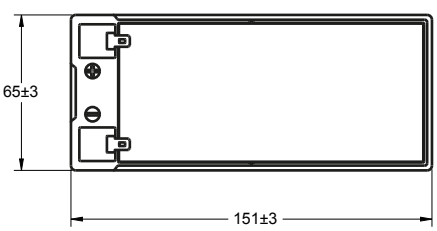
Long Life Series





Technical Dimensions (mm)





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TechData

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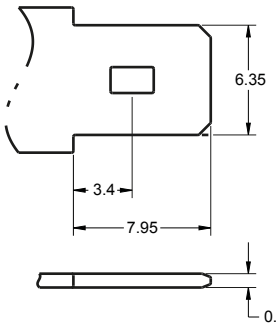
Image

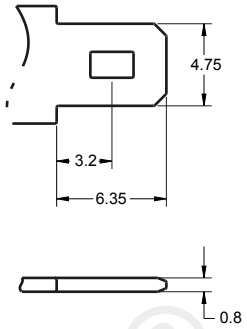


Terminal Dimensions (mm)

Standard Terminal: F2



Optional Terminal: F1



Technical Specification

Output	Nominal Voltage Nominal Capacity (20HR)	12V 9Ah
Terminal Type	Standard Terminal Optional Terminal	F2 F1
Container Material	Standard Option Flame Retardant Option (FR)	ABS ABS (UL94:VO)
Rated Capacity	(20HR 1.75V/cell, 25°C) (10HR 1.75V/cell, 25°C) (5HR 1.75V/cell, 25°C) (3HR 1.75V/cell, 25°C) (1HR 1.60V/cell, 25°C)	9.00 Ah/0.450A 8.51 Ah/0.851A 7.75 Ah/1.55A 6.90 Ah/2.30A 5.98 Ah/5.98A
Max Discharge Current	135A (5s)	
Internal Resistance	Approx 17mΩ	
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 2.7A. Voltage 14.4V ~ 15V @ 25°C Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 2.7A. 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	12 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 A / W	5 min	10 min	15 min	20 min	30 min	45 min	60 min	90 min	2 hours	3 hours	4 hours	5 hours	6 hours	8 hours	10 hours	20 hours
1.85V/cell	30.2 57.1	20.7 39.4	16.1 30.8	12.9 24.8	9.34 18.1	6.72 13.0	5.41 10.5	3.92 7.66	3.08 6.03	2.22 4.37	1.77 3.49	1.51 2.98	1.29 2.55	1.02 2.02	0.832 1.65	0.440 0.880
1.80V/cell	32.4 60.8	21.9 41.4	16.9 32.1	13.4 25.7	9.63 18.5	6.90 13.3	5.54 10.8	4.00 7.79	3.14 6.13	2.26 4.43	1.80 3.53	1.53 3.02	1.31 2.59	1.03 2.04	0.843 1.67	0.445 0.890
1.75V/cell	34.2 63.3	22.8 42.8	17.4 33.0	13.8 26.2	9.88 18.9	7.05 13.6	5.66 10.9	4.08 7.91	3.19 6.22	2.30 4.49	1.82 3.58	1.55 3.05	1.33 2.62	1.04 2.06	0.851 1.69	0.450 0.900
1.70V/cell	35.8 65.7	23.7 44.2	18.0 33.9	14.2 26.9	10.1 19.3	7.21 13.8	5.76 11.1	4.15 8.03	3.24 6.30	2.33 4.55	1.85 3.62	1.57 3.09	1.34 2.64	1.05 2.08	0.860 1.71	0.454 0.907
1.65V/cell	37.0 67.4	24.4 45.2	18.5 34.6	14.5 27.4	10.3 19.6	7.32 14.0	5.85 11.2	4.20 8.11	3.28 6.36	2.35 4.59	1.86 3.65	1.58 3.11	1.35 2.67	1.06 2.10	0.866 1.72	0.457 0.914
1.60V/cell	39.3 70.1	25.4 46.5	19.1 35.6	14.9 28.0	10.6 20.0	7.50 14.3	5.98 11.4	4.29 8.3	3.34 6.46	2.40 4.66	1.90 3.71	1.61 3.15	1.37 2.70	1.08 2.13	0.877 1.74	0.462 0.924

MH 29410
EMC 1188-C
IEC 60896

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Long Life Series

VdS
MH 29410
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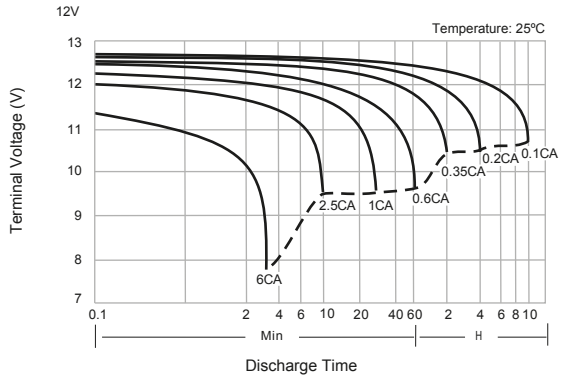
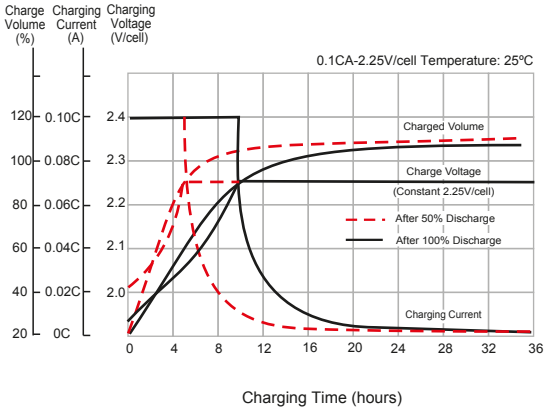
IEC 60896
ISO 9001:2015

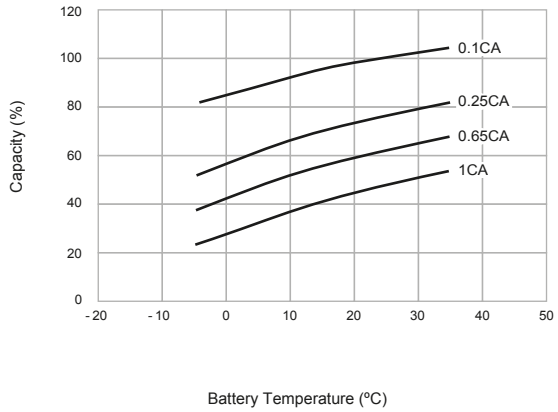
Discharge Characteristics



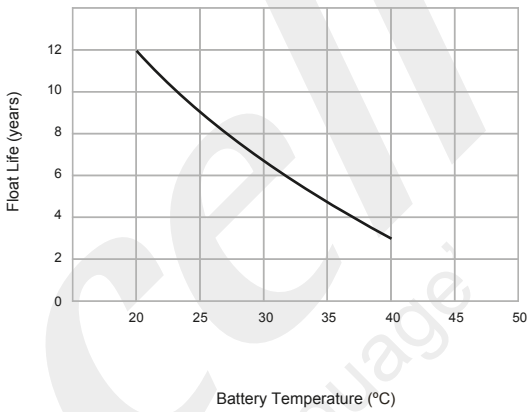
Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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