

Ultracell®

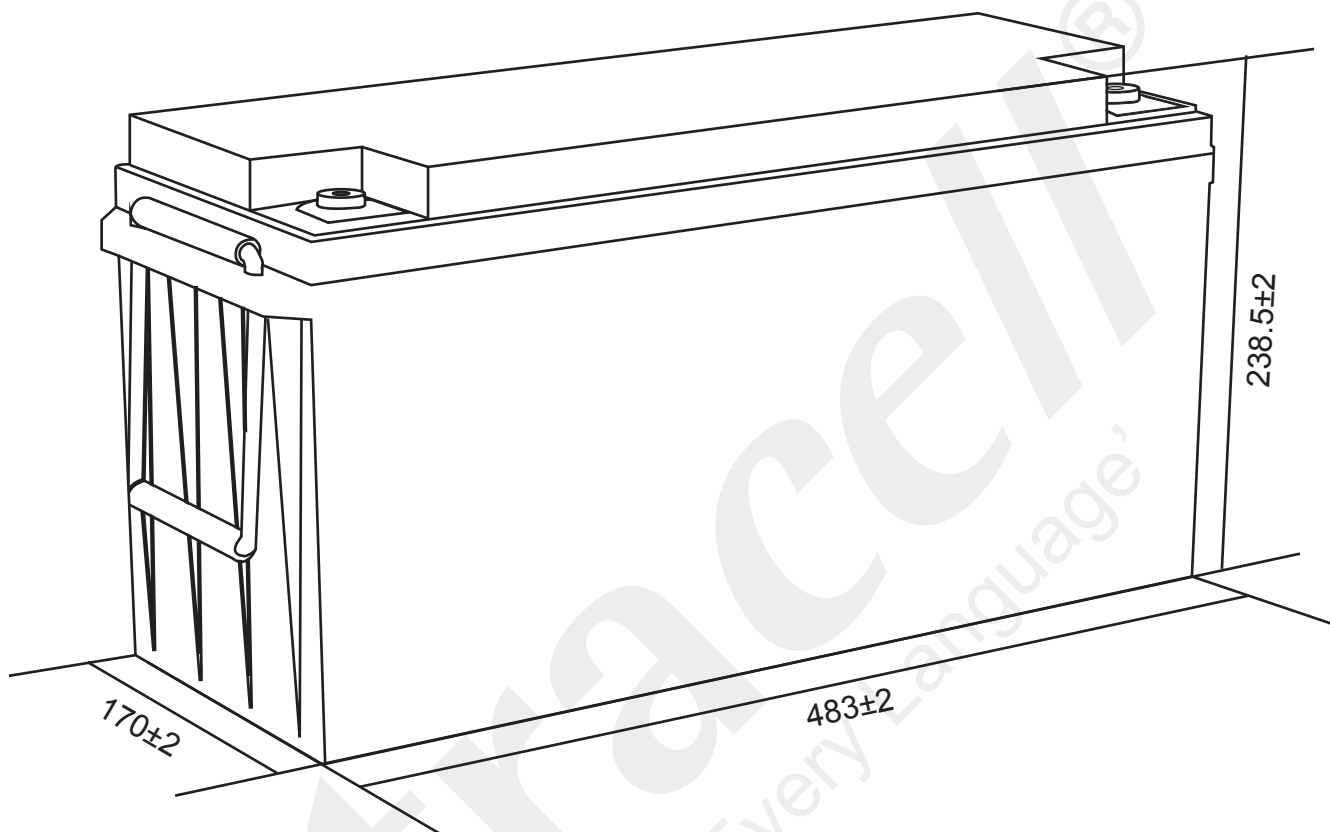
'Quality in Every Language'

UC150-12E

12V 150Ah (C₁₀)

12V 172Ah (C₁₀₀)

Deep Cycle Series

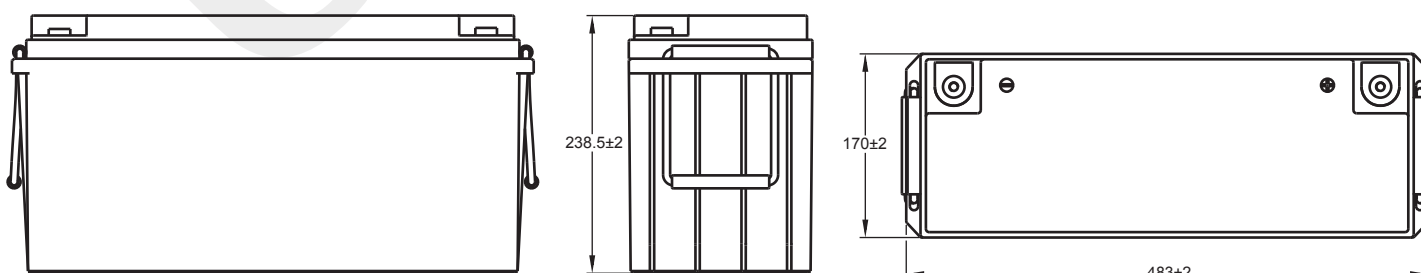


YEMIN

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Technical Dimensions (mm)

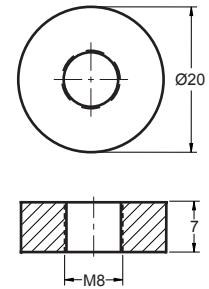


Image



Terminal Dimensions (mm)

Standard Terminal: F11



Technical Specification

Output	Nominal Voltage	12V
	Nominal Capacity (10HR)	150Ah
Terminal Type	Standard Terminal	F11
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	(100HR 1.80V/cell, 25°C)	172 Ah/1.72A
	(20HR 1.80V/cell, 25°C)	157.6 Ah/7.88A
	(10HR 1.80V/cell, 25°C)	150 Ah/15.0A
	(5HR 1.75V/cell, 25°C)	136.5 Ah/27.3A
	(3HR 1.75V/cell, 25°C)	124.2 Ah/41.4A
	(1HR 1.60V/cell, 25°C)	95.6 Ah/95.6A
Max Discharge Current	1500A (5s)	
Internal Resistance	Approx 3.5mΩ	
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 45A. 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	8 Years	

Self Discharge

Ultracell® UC 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.

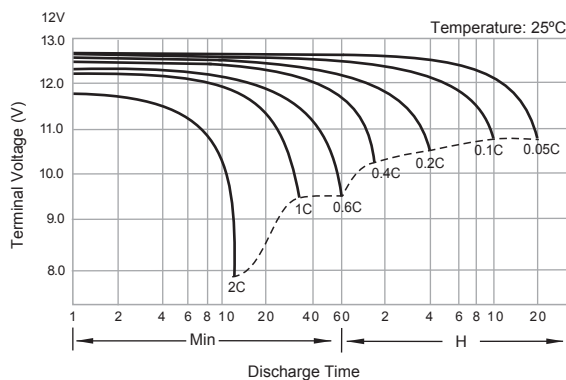
Constant Current Discharge / Constant Power Discharge At 25°C (Amperes & Watts/Cell)

A = Amperes W = Watts

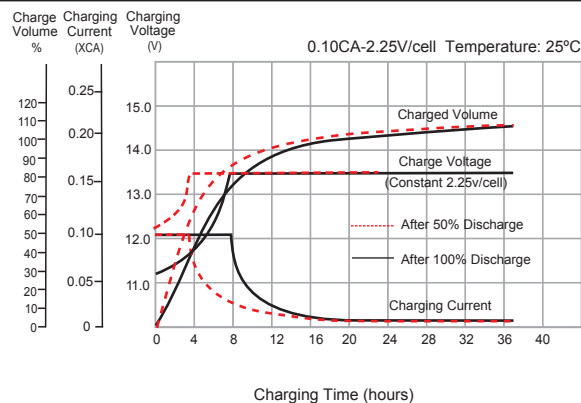
F.V/TIME	5 min	10 min	15 min	20 min	30 min	45 min	60 min	90 min	2 hours	3 hours	4 hours	5 hours	6 hours	8 hours	10 hours	20 hours
A	W															
1.85V/cell	305.9	217.5	192.4	151.3	135.3	98.9	83.8	60.7	51.1	37.5	29.4	25.5	22.5	17.3	14.3	7.60
	559.6	400.8	364.3	287.8	258.5	190.2	162.1	117.8	99.3	73.2	57.6	50.2	44.4	34.3	28.5	15.1
1.80V/cell	347.8	246.9	218.0	171.1	147.3	104.8	86.8	62.8	52.7	40.7	31.4	26.8	24.2	18.2	15.0	7.88
	625.9	448.3	407.5	321.9	279.2	200.2	167.0	121.2	102.1	79.1	61.3	52.6	47.5	36.0	29.8	15.7
1.75V/cell	377.8	267.7	236.0	184.7	150.3	108.6	91.1	66.0	55.5	41.4	32.0	27.3	24.3	18.3	15.2	7.95
	668.0	478.5	434.9	343.6	282.8	206.2	174.4	126.8	107.0	80.4	62.2	53.4	47.8	36.1	30.1	15.8
1.70V/cell	403.9	285.4	250.7	195.8	153.3	110.8	92.9	67.3	56.6	42.2	32.5	27.8	24.5	18.6	15.3	8.03
	702.3	503.0	457.2	361.2	286.0	208.9	177.0	128.8	108.7	81.6	63.1	54.1	47.9	36.6	30.3	15.9
1.67V/cell	418.0	294.5	258.0	201.2	155.6	112.4	94.3	68.3	57.4	42.6	33.0	28.3	24.6	18.8	15.5	8.13
	713.7	511.2	464.7	367.1	288.0	210.8	178.6	130.0	109.8	82.1	63.8	55.0	48.0	37.0	30.7	16.1
1.60V/cell	432.8	304.5	266.0	206.3	157.8	114.0	95.6	69.3	58.3	43.0	33.4	28.7	24.8	19.1	15.7	8.23
	723.7	518.4	471.2	372.2	289.3	211.8	179.9	131.0	110.7	82.4	64.3	55.5	48.2	37.4	31.0	16.3



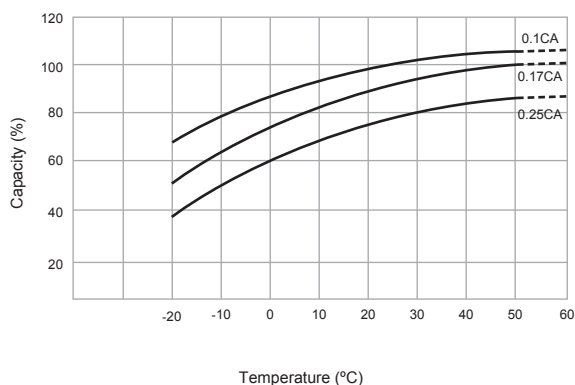
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effects of Temperature on Long Term Float Life

