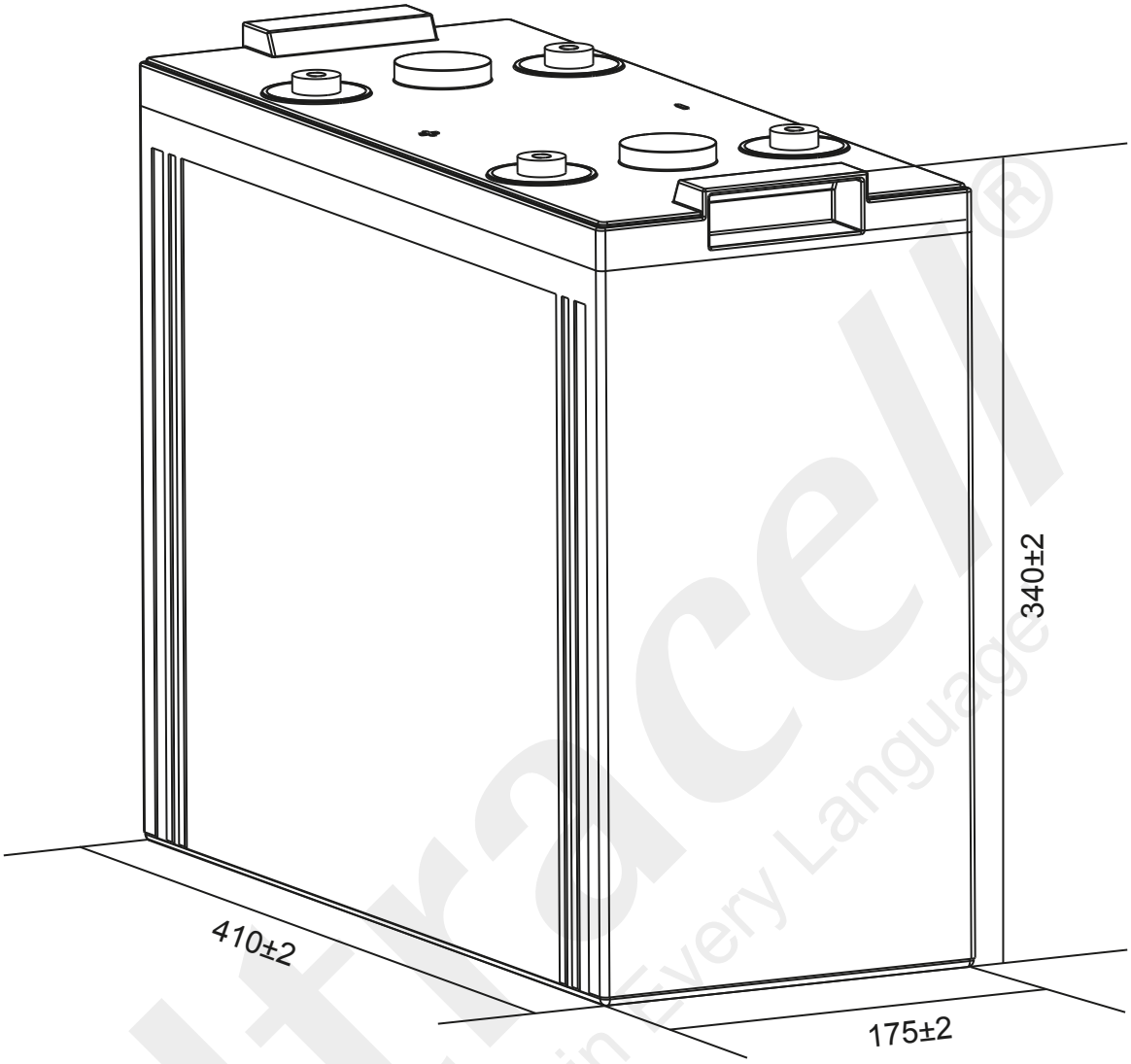
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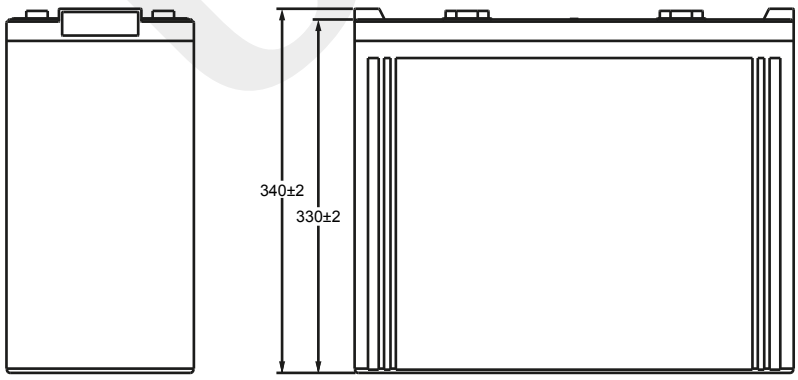
UCG800-2

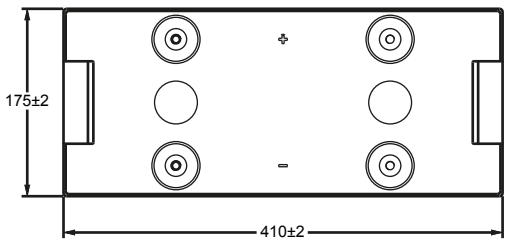
2V 800Ah (C_{10})
2V 920Ah (C_{100})
Solar Series





Technical Dimensions (mm)





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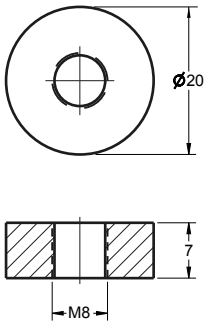
UCG800-2
2V 800Ah (C_{10})
2V 920Ah (C_{100})
Solar Series

Image



Terminal Dimensions (mm)

Standard
Terminal: F11



Technical Specification

Output	Nominal Voltage Nominal Capacity (10HR)	2V 800Ah
Terminal Type	Standard Terminal	F11
Container Material	Standard Option Flame Retardant Option (FR)	ABS ABS (UL94:VO)
Rated Capacity	(100HR 1.80V/cell, 25°C) (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 1.67V/cell, 25°C)	920 Ah/9.20A 830 Ah/41.5A 800 Ah/80.0A 686 Ah/137.2A 605.1 Ah/201.7A 432.1 Ah/432.1A
Max Discharge Current	5600A (5s)	
Internal Resistance	Approx 0.6mΩ	
Discharge Characteristics	Operating Temp Range	Discharge: -20 ~ 55°C Charge: 0 ~ 40°C Storage: -20 ~ 50°C
	Nominal Operating Temp Range	25 ± 3°C
	Cycle Use	Initial Charging Current less than 200A. Voltage 2.4V ~ 2.5V @ 25°C Temp. Coefficient -5mV/°C
	Standby Use	No limit on initial charging current. Voltage 2.25V ~ 2.3V @ 25°C Temp. Coefficient -3mV/°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® UCG 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)	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
1.85V/cell	907.2	800.1	720.1	595.6	472.3	381.7	237.6	190.9	150.8	129.7	111.1	89.5	76.3	40.5
	1705.6	1513.6	1368.4	1138.5	908.3	737.3	461.2	371.7	295.1	254.8	218.8	177.1	151.3	80.4
1.80V/cell	1072.6	908.8	801.6	639.1	496.8	400.5	250.6	200.8	157.6	136.1	116.0	92.9	80.0	41.5
	1984.4	1695.1	1505.6	1211.0	948.0	769.1	484.3	388.3	307.0	266.2	227.7	183.3	158.4	82.1
1.75V/cell	1209.6	998.4	864.1	676.8	522.5	403.3	261.0	201.7	162.8	137.2	118.8	94.7	80.7	42.0
	2202.7	1836.1	1604.3	1270.4	989.5	771.8	502.6	390.6	316.5	267.2	232.4	186.4	159.5	83.3
1.70V/cell	1298.5	1065.6	924.1	710.2	539.4	405.6	268.7	203.6	166.4	138.1	120.8	96.1	81.2	42.5
	2328.5	1937.5	1699.2	1322.8	1016.1	773.4	515.1	391.9	322.3	268.3	236.1	189.1	160.5	84.1
1.67V/cell	1346.8	1094.5	924.1	727.5	554.0	416.5	272.7	205.1	168.2	139.1	121.9	96.8	81.7	42.7
	2390.0	1971.4	1685.2	1343.5	1037.4	789.7	521.0	393.0	325.0	269.3	237.6	190.0	161.3	84.4
1.60V/cell	1449.9	1157.0	988.0	757.9	573.5	432.1	280.1	207.2	171.2	141.2	123.7	98.1	83.1	43.2
	2510.9	2042.6	1776.5	1385.6	1064.6	812.5	531.5	397.0	329.3	272.5	240.4	192.1	163.7	85.3

VdS
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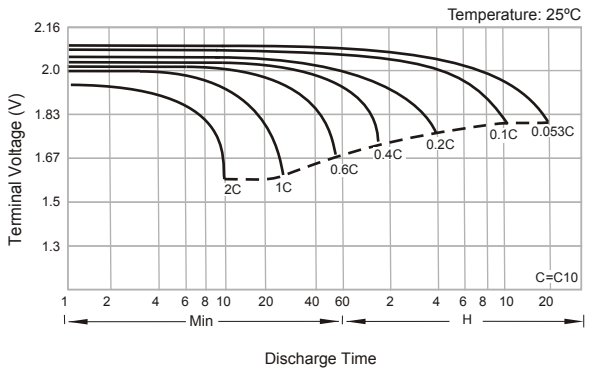
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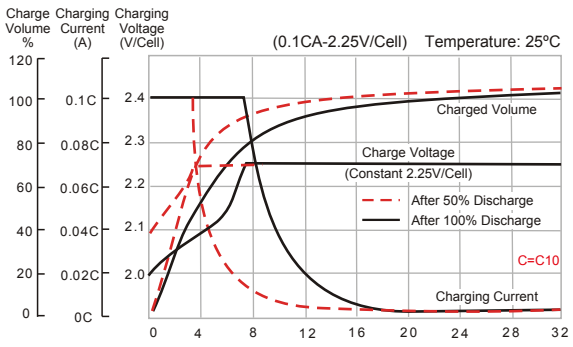
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2V 800Ah (C_{10})
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Solar Series

Discharge Characteristics



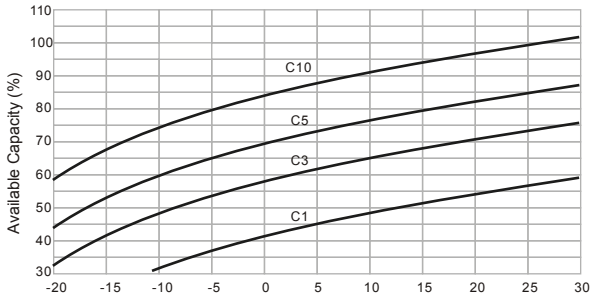
Discharge Time

Float Charging Characteristics



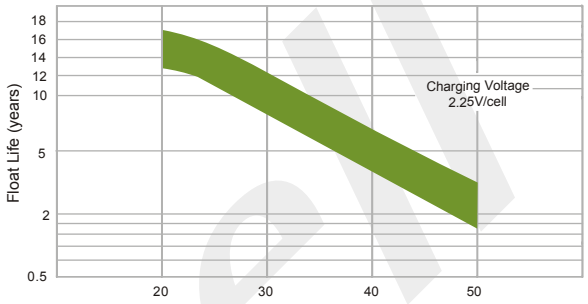
Charging Time (hours)

Temperature Effects in Relation to Battery Capacity



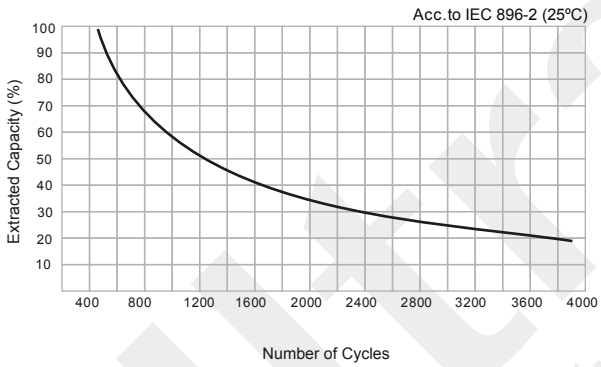
Battery Temperature (ºC)

Effect of Temperature on Long Term Float Life



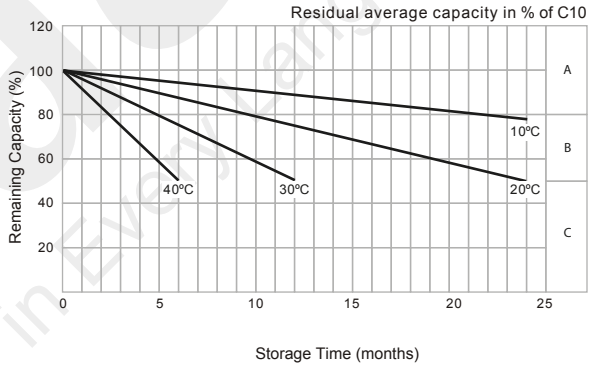
Battery Temperature (ºC)

Cycle Life in Relation to Depth of Discharge



Number of Cycles

General Relation of Capacity vs. Storage Time



Storage Time (months)

General Relation of Capacity vs. Storage Time (Notes)

A) No supplementary charge required.
(Carryout supplementary charge before use if 100% capacity is required.)

B) Supplementary charge required before use. Optional charging way as below:
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.25Vcell.
3. Charged for 8 ~ 10 hours at limited current 0.05 CA.

C) Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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