

UCG800-2



Physical Specification

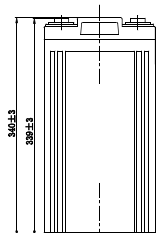
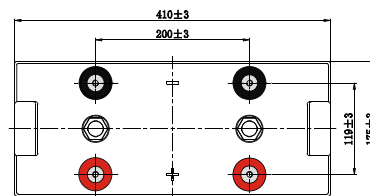
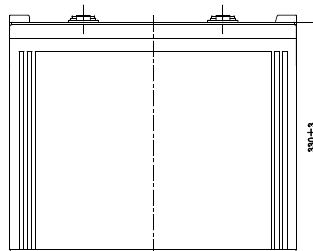
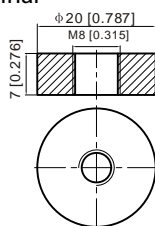
Part Number:	UCG800-2
Length:	410 ± 2 mm (16.14 inches)
Width:	175 ± 2 mm (6.89 inches)
Container Height:	330 ± 2 mm (12.99 inches)
Total Height (with terminal):	340 ± 2 mm (13.39 inches)
Approx Weight:	Approx 50.6 kg (111.57lbs)

Specifications

	Nominal Voltage	2V
	Nominal Capacity (10HR)	800AH
Terminal Type	Standard Terminal	F 11
	Optional Terminal	-
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	853.4 AH/42.67A	(20hr,1.80V/cell, 25°C / 77°F)
	800.0 AH/80.00A	(10hr,1.80V/cell, 25°C / 77°F)
	688.0 A H/137.6A	(5hr,1.75V/cell, 25°C / 77°F)
	598.5 AH/199.5A	(3hr,1.75V/cell, 25°C / 77°F)
	469.3 AH/469.3A	(1hr,1.60V/cell, 25°C / 77°F)
Max Discharge Current	5600 A (5s)	
Internal Resistance	Approx 0.6mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -20 ~ 55°C (-4 ~ 131°F)
		Charge: 0 ~ 40°C (32 ~ 104°F)
		Storage: -20 ~ 50°C (-4 ~ 122°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 200.0A. Voltage 2.4V ~ 2.5V at 25°C (77°F) Temp. Coe ffcient -5mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 2.25V ~ 2.3V at 25°C (77°F) Temp. Coe ffcient -3mV/°C
	Capacity a ffected by Temperature	40°C (104°F)
25°C (77°F)		100%
0°C (32°F)		86%
Design Floating Life at 20°C	15 Years	
Self Discharge	Ultracell batteries may be stored for up to 6 months at 25°C(77F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

Dimensions

F 11 Terminal



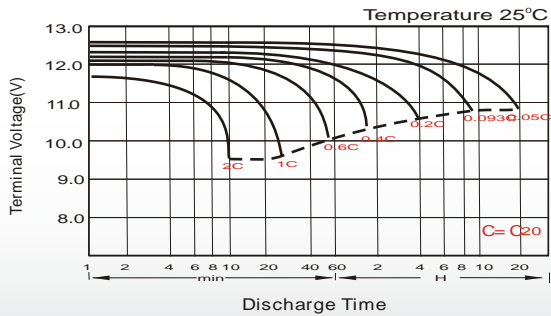
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	696.0	547.2	417.1	362.4	231.2	176.3	146.0	126.1	108.8	96.3	86.9	79.4	75.1	40.96
1.80V/cell	799.2	611.2	460.8	400.0	250.4	188.8	154.8	132.5	114.3	100.8	91.1	83.6	78.5	42.67
1.75V/cell	897.6	672.0	497.1	427.2	265.2	199.5	162.2	137.6	118.3	104.5	94.0	86.0	80.0	43.52
1.70V/cell	\	720.0	528.0	452.8	281.2	207.7	167.4	141.8	122.4	107.9	96.8	88.3	81.9	44.12
1.67V/cell	\	748.8	547.2	469.3	288.4	214.4	171.6	144.8	124.4	109.5	98.2	89.5	82.9	44.52
1.60V/cell	\	800.0	587.7	498.4	300.0	222.9	178.0	149.3	127.5	111.8	100.0	91.4	84.5	45.16

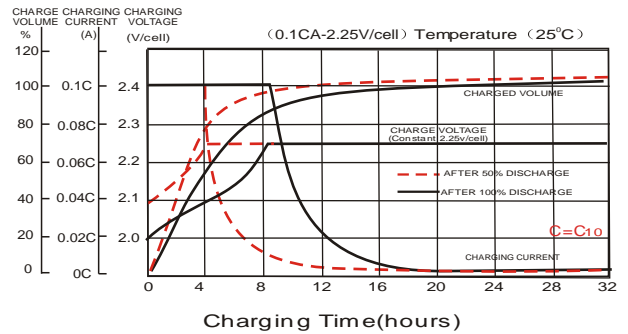
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	1321.7	1046.2	802.4	700.2	448.3	342.7	285.0	247.0	213.9	189.9	171.6	156.9	148.7	81.1
1.80V/cell	1497.7	1157.6	878.3	768.8	483.0	365.7	300.9	258.6	223.8	198.0	179.4	164.8	155.0	84.4
1.75V/cell	1663.3	1258.7	939.0	816.8	510.2	385.6	314.3	267.4	230.9	204.6	184.7	169.5	157.8	86.0
1.70V/cell	\	1339.2	993.7	862.6	538.5	400.3	323.6	274.9	238.6	211.0	189.9	173.7	161.5	87.1
1.67V/cell	\	1374.0	1020.5	887.0	549.4	411.4	330.7	279.8	241.7	213.5	192.2	175.7	163.1	87.8
1.60V/cell	\	1458.4	1090.2	937.0	568.8	425.8	341.9	287.5	246.9	217.4	195.3	179.1	166.0	88.9

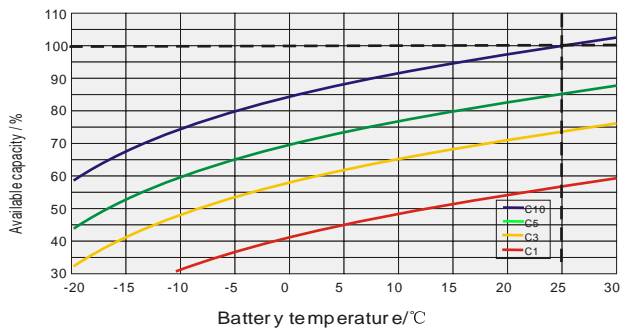
Discharge Characteristics



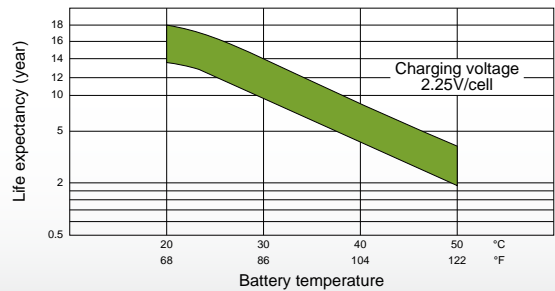
Float Charging Characteristics



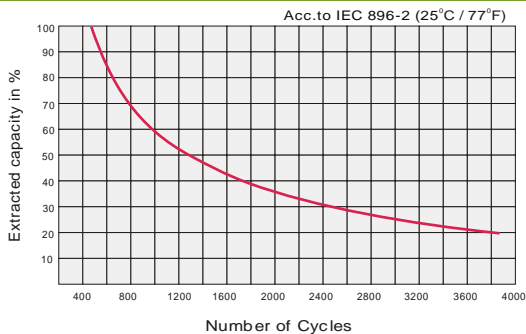
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time

