

Uzs840-2

2V 840AH
OPzS

Ultracell®

Quality in Every Language

Uzs840-2



Physical Specification

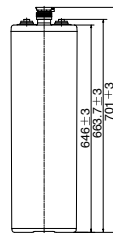
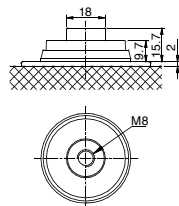
Part Number	Uzs840-2
Length	145 ± 2 mm
Width	206 ± 2 mm
Container Height	646 ± 2 mm
Total Height (with terminal)	701 ± 2 mm
Without Electrolyte	33.4 kg
With Electrolyte	45.4 kg

Specifications

	Nominal Voltage	2V
	Nominal Capacity (100HR)	840AH
Terminal Type	Standard Terminal	M8
Container Material	Standard Option	SAN transparent container
Rated Capacity	10hr, 1.80V/cell, 25°C	600.0 AH/60.0A
	5hr, 1.75V/cell, 25°C	533.0 AH/106.6A
	3hr, 1.75V/cell, 25°C	462.6 AH/154.2A
	1hr, 1.60V/cell, 25°C	342.6 AH/342.6A
Max Discharge Current	4800A (5s)	
Internal Resistance	Approx 0.45mΩ	
Charging Characteristics	Floating Voltage	2.23V ~ 2.25V at 20°C Temp.
	Boost charge	2.30V ~ 2.40V at 20°C Temp.
	Charging current (max)	0.1CA
	Temp. Coefficient	-3mV/°C
Discharge Characteristics	Type and number of poles	M8/2
	Operating Temp. Range	Discharge: -15 ~ 55°C
		Charge: 0 ~ 45°C
		Storage: -15 ~ 45°C
Capacity affect by Temperature	40°C	103%
	25°C	100%
	0°C	86%
Design Floating Life at 20°C	20 Years	
Self Discharge	Ultracell batteries may be stored for up to 6 months at 25°C(77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

Dimensions

M8 Terminal



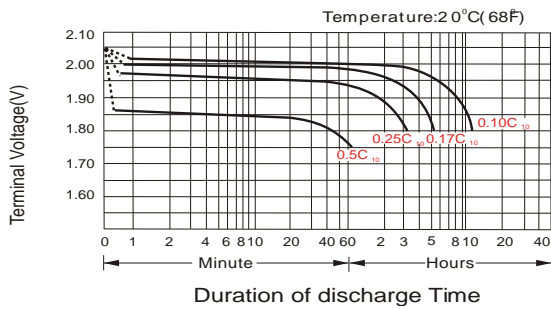
Constant Current Discharge (Amperes) at 20°C

F.V/ Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	454.8	395.2	342.6	270.0	223.2	166.8	134.1	113.4	98.2	77.7	64.2	34.8
1.65V/cell	427.2	380.0	331.2	263.2	218.1	164.0	132.2	111.9	96.8	76.7	63.4	34.5
1.70V/cell	405.6	358.4	318.6	254.8	213.0	159.2	129.2	109.5	95.0	75.4	62.4	34.0
1.75V/cell	380.4	341.6	302.4	242.8	204.0	154.2	125.3	106.6	92.7	74.1	61.3	33.4
1.80V/cell	338.4	308.0	278.4	227.6	191.7	146.4	119.9	102.2	89.3	72.1	60.0	32.8
1.85V/cell	270.0	255.2	238.2	202.4	174.0	134.0	110.9	95.8	84.1	68.5	57.4	31.5

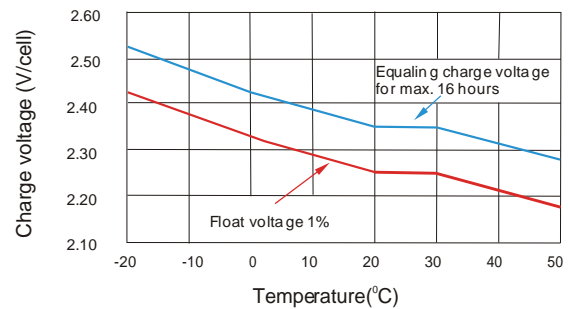
Constant Power Discharge (Watts) at 20°C

F.V/ Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	776.3	691.6	608.3	485.4	405.9	305.5	247.8	211.0	183.8	146.1	121.2	66.0
1.65V/cell	745.1	672.9	592.9	475.5	398.6	301.9	245.4	209.2	182.2	145.0	120.3	65.7
1.70V/cell	717.1	641.3	574.7	463.4	391.0	294.5	240.6	205.5	179.3	143.0	118.7	65.0
1.75V/cell	683.9	617.7	550.6	444.8	377.2	287.0	234.5	201.0	175.6	141.1	117.3	64.2
1.80V/cell	616.6	565.5	513.4	421.7	357.6	274.6	225.9	193.6	170.2	138.0	115.4	63.3
1.85V/cell	500.3	475.3	445.7	380.2	328.2	254.0	211.1	183.0	161.5	132.2	111.3	61.4

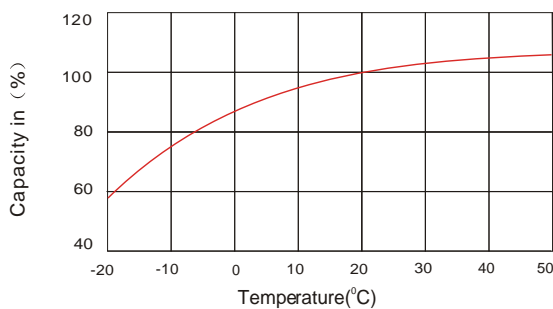
Discharge Characteristics



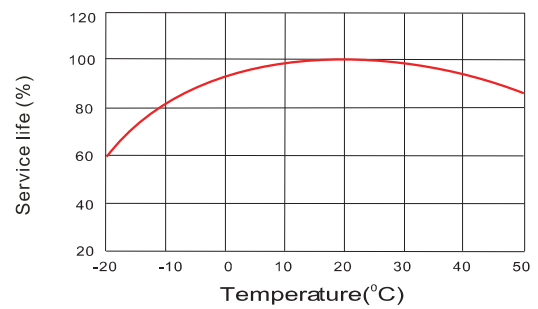
Float Charging Characteristics



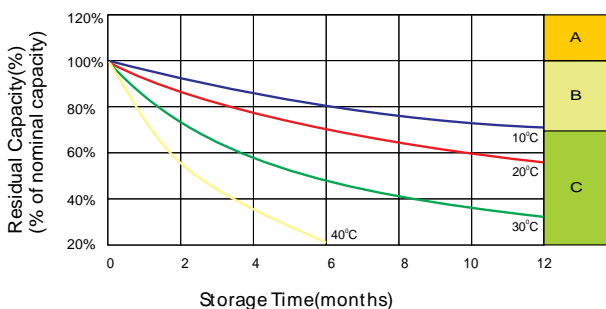
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



A

No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B

Supplementary charge required before use. Optional charging way:
1.Charged for above 3 days at current 0.1C A and constant volatge 2.25V/cell.
2.Charged for above 20hours at current 0.1C A and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limited current 0.05CA.

C

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