

UHT7-12

12V 7AH
High Temperature

Ultracell®

Quality in Every Language

UHT7-12

Awaiting Image

Physical Specification

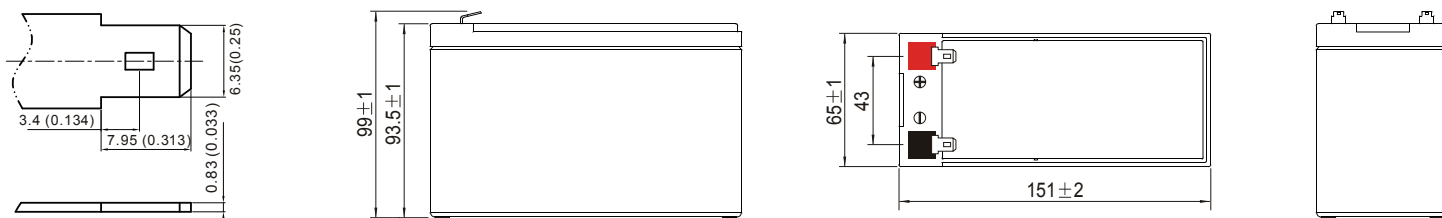
Part Number	UHT7-12
Length	151 ± 2 mm
Width	65 ± 2 mm
Container Height	93.5 ± 2 mm
Total Height (with terminal)	99 ± 2 mm
Approx Weight	2.45 kg

Specifications

	Nominal Voltage (10hr)	12V
	Nominal Capacity	7.0AH
Terminal Type	Standard Terminal	F2
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	20hr, 1.80V/cell, 25°C	7.42 AH/0.371A
	10hr, 1.80V/cell, 25°C	7.0 AH/0.700A
	5hr, 1.75V/cell, 25°C	5.5 AH/1.84A
	3hr, 1.75V/cell, 25°C	5.37 AH/1.79A
	1hr, 1.60V/cell, 25°C	4.40 AH/4.40A
Max Discharge Current	105A (5s)	
Internal Resistance	Approx 18m Ω	
Discharge Characteristics	Operating Temperature Range	Maximum Discharging -40 ~ 80°C Charging -15 ~ 45°C Storage -20 ~ 50°C
	Cycle Use	Initial Charging Current less than 30A. Voltage: 2.30V ~ 2.30V at 25°C Temp. Coefficient -30mV/°C
	Standby Use	No limit on Initial Charging Current. Voltage: 2.25V ~ 2.27V at 25°C Temp. Coefficient -20mV/°C
	Capacity affect by Temperature	40°C 103% 25°C 100% 0°C 86%
Design Floating Life at 20°C	15 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

F2 Terminal



Revised: 25 Nov 2015

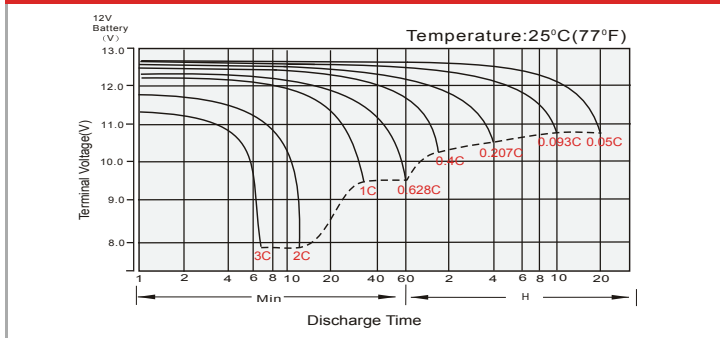
Constant Current Discharge (Amperes) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	9.03	7.53	6.42	5.25	3.97	3.33	2.12	1.68	1.36	1.10	0.97	0.77	0.661	0.368
1.80V/cell	11.5	9.10	7.59	6.19	4.61	3.73	2.32	1.81	1.46	1.18	1.04	0.82	0.700	0.371
1.75V/cell	12.7	9.9	8.17	6.43	4.79	3.90	2.40	1.84	1.49	1.21	1.07	0.84	0.707	0.375
1.70V/cell	13.8	10.6	8.58	6.69	4.98	4.02	2.50	1.89	1.53	1.24	1.09	0.85	0.714	0.382
1.67V/cell	14.9	11.3	9.12	7.06	5.10	4.16	2.57	1.98	1.58	1.28	1.11	0.86	0.729	0.386
1.60V/cell	16.2	12.1	9.71	7.45	5.32	4.31	2.65	2.04	1.63	1.32	1.14	0.87	0.736	0.389

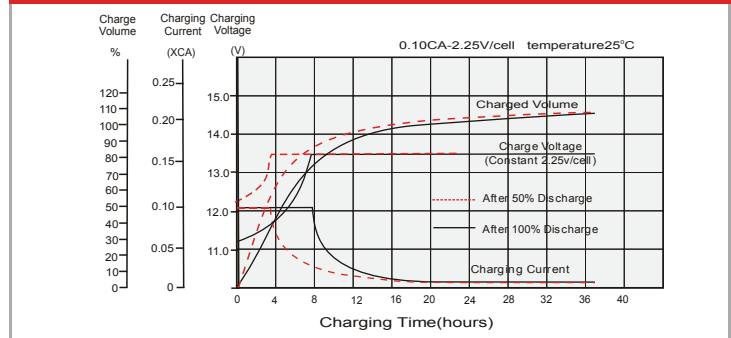
Constant Power Discharge (Watts) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	17.0	14.3	12.3	10.2	7.76	6.53	4.20	3.34	2.71	2.20	1.93	1.55	1.33	0.741
1.80V/cell	21.5	17.1	14.4	11.8	8.96	7.28	4.55	3.57	2.88	2.35	2.07	1.65	1.41	0.747
1.75V/cell	23.2	18.4	15.3	12.2	9.21	7.58	4.70	3.62	2.94	2.40	2.12	1.67	1.42	0.753
1.70V/cell	24.7	19.4	16.0	12.6	9.55	7.80	4.88	3.72	3.01	2.46	2.16	1.69	1.43	0.767
1.67V/cell	26.5	20.5	16.8	13.2	9.70	8.00	4.99	3.86	3.10	2.52	2.20	1.71	1.46	0.776
1.60V/cell	28.1	21.5	17.7	13.8	10.05	8.24	5.13	3.96	3.19	2.60	2.24	1.73	1.47	0.779

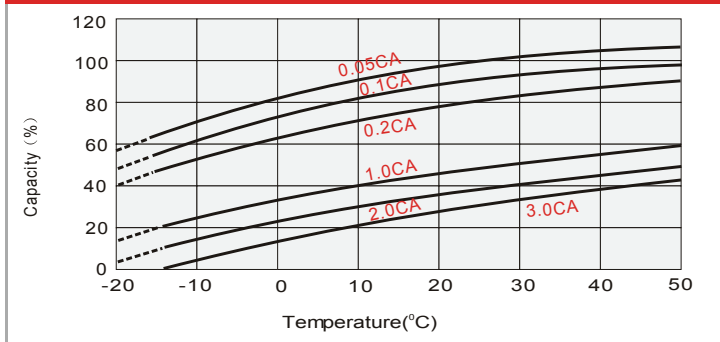
Discharge Characteristics



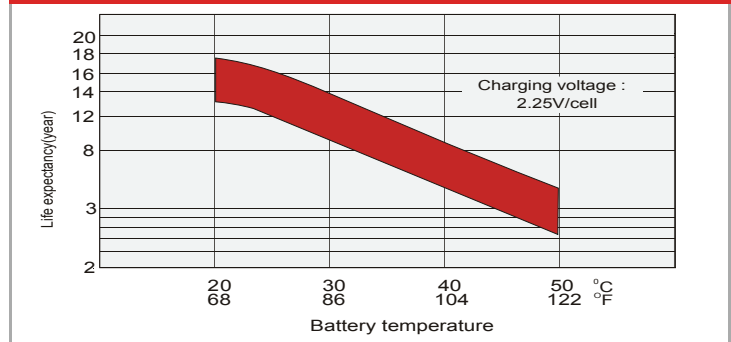
Float Charging Characteristics



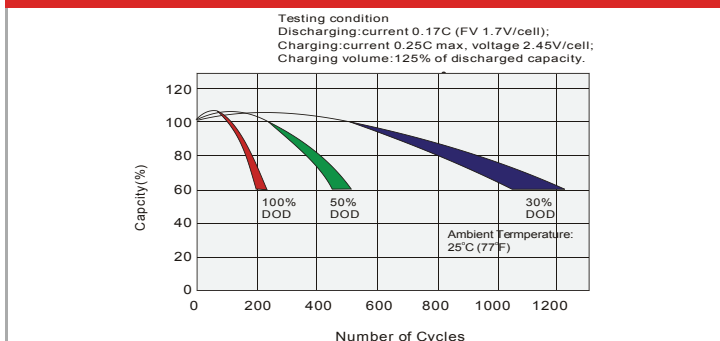
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time

