

UL7-12



Physical Specification

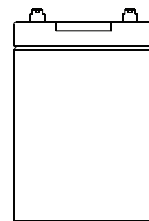
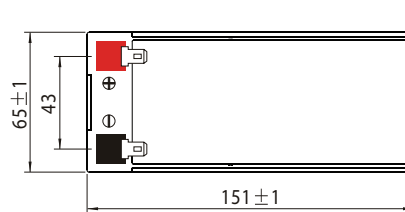
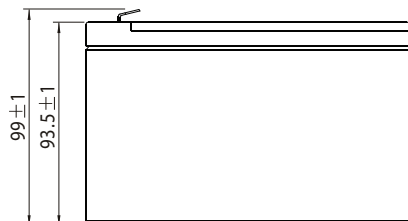
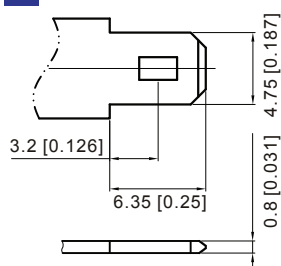
Part Number:	UL7-12
Length:	151 ± 2 mm (5.94 inches)
Width:	65 ± 2 mm (2.56 inches)
Container Height:	93.5 ± 2 mm (3.68 inches)
Total Height (with terminal):	99 ± 2 mm (3.90 inches)
Approx Weight:	Approx 2.05kg (4.81lbs)

Specifications

Terminal Type	Normal Voltage	12V
	Normal Capacity (20HR)	7AH
	Standard Terminal	F1
Container Material	Optional Terminal	F2
	Standard Option	ABS
Rated Capacity	Flame Retardant Option (FR)	UL94:VO
	7.00 AH/0.350A	(20hr, 1.80V/cell, 25°C / 77°F)
	6.53 AH/0.653A	(10hr, 1.80V/cell, 25°C / 77°F)
	5.80 AH/1.16A	(5hr, 1.75V/cell, 25°C / 77°F)
	5.13 AH/1.71A	(3hr, 1.75V/cell, 25°C / 77°F)
Max Discharge Current	4.26 AH/4.26A	(1hr, 1.60V/cell, 25°C / 77°F)
	105A (5s)	
Internal Resistance	Approx 28mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 50°C (5 ~ 122°F) Charge: 0 ~ 40°C (5 ~ 104°F) Storage: -15 ~ 40°C (5 ~ 104°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 2.1A. Voltage 14.4V ~ 15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 13.5V ~ 13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
	Capacity affected by Temperature	40°C (104°F) 103%
		25°C (77°F) 100%
		0°C (32°F) 86%
Design Floating Life at 20°C	5 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

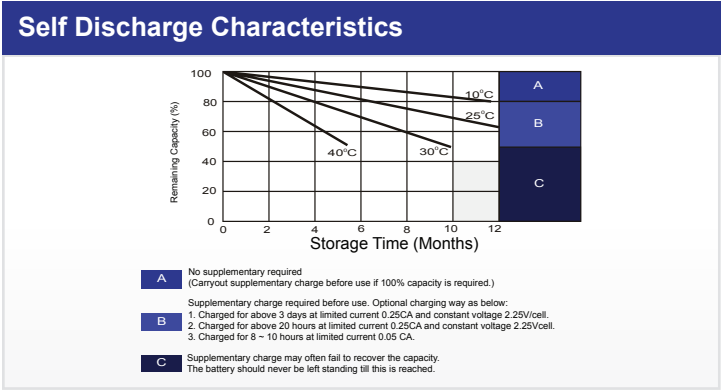
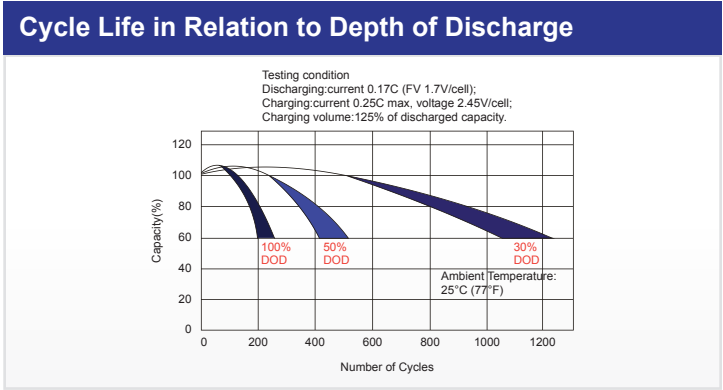
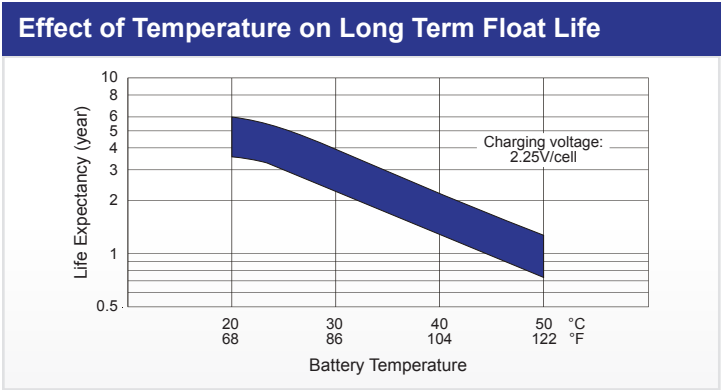
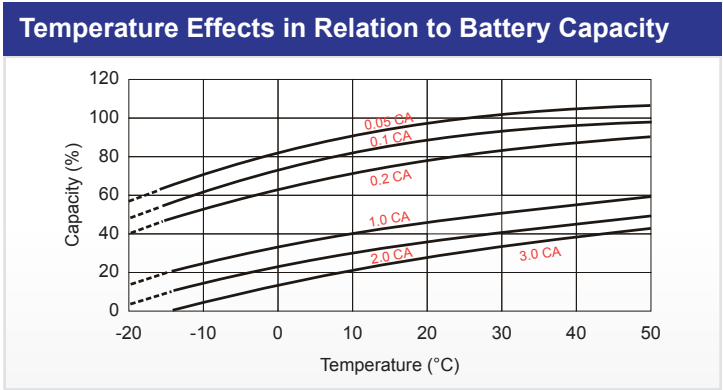
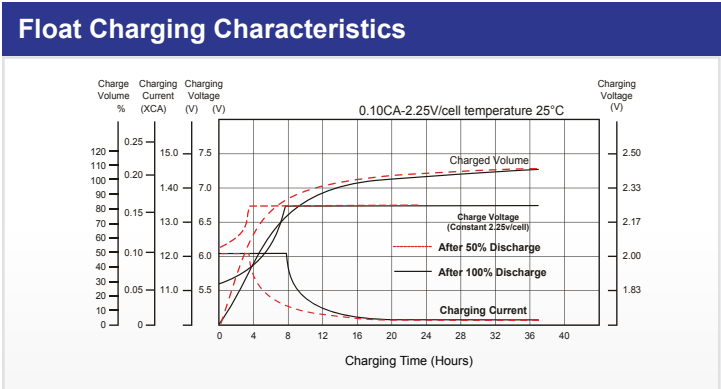
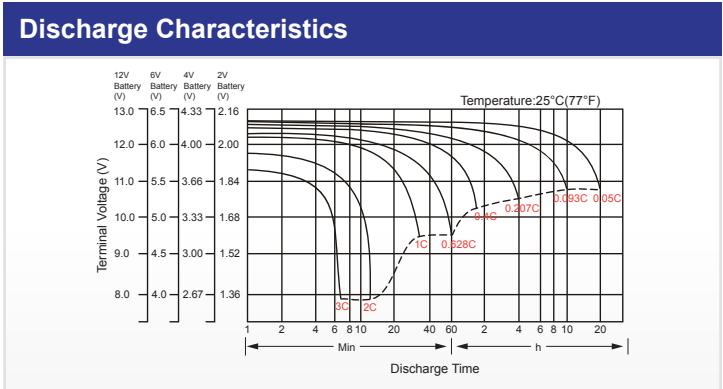
F1 Terminal



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Constant Current Discharge (Amperes) at 25°C (77°F)																
F.V/ Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	
1.85V/cell	16.0	11.7	9.97	8.46	6.17	4.52	3.60	2.14	1.60	1.30	1.10	0.95	0.756	0.626	0.343	
1.80V/cell	19.2	13.7	11.3	9.20	6.65	4.80	3.83	2.24	1.66	1.35	1.14	0.99	0.783	0.653	0.350	
1.75V/cell	21.5	14.9	12.0	9.70	6.92	4.99	3.98	2.31	1.71	1.38	1.16	1.01	0.795	0.663	0.357	
1.70V/cell	23.4	15.9	12.8	10.2	7.18	5.12	4.05	2.36	1.75	1.41	1.19	1.03	0.812	0.672	0.361	
1.65V/cell	25.5	16.8	13.4	10.6	7.43	5.28	4.17	2.40	1.77	1.43	1.21	1.04	0.823	0.680	0.365	
1.60V/cell	26.8	17.6	13.8	10.9	7.64	5.42	4.26	2.46	1.81	1.46	1.23	1.06	0.837	0.690	0.371	

Constant Power Discharge (Watts) at 25°C (77°F)																
F.V/ Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	
1.85V/cell	30.3	22.3	19.2	16.4	12.0	8.86	7.09	4.23	3.17	2.59	2.20	1.91	1.52	1.26	0.694	
1.80V/cell	35.9	25.8	21.5	17.7	12.9	9.37	7.52	4.42	3.30	2.69	2.27	1.97	1.57	1.31	0.704	
1.75V/cell	39.8	28.0	22.8	18.6	13.4	9.72	7.79	4.55	3.37	2.74	2.31	2.00	1.59	1.33	0.716	
1.70V/cell	42.8	29.5	24.0	19.3	13.8	9.89	7.88	4.61	3.42	2.78	2.34	2.03	1.61	1.33	0.718	
1.65V/cell	45.7	30.7	24.8	19.8	14.1	10.1	8.02	4.65	3.45	2.80	2.36	2.05	1.62	1.34	0.720	
1.60V/cell	47.0	31.5	25.1	20.1	14.3	10.3	8.13	4.73	3.50	2.83	2.39	2.07	1.63	1.35	0.728	



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