

UL 7 - 12
12V 7.0AH
STANDBY

Ultracell®
'Quality in Every Language'

Image



Specification

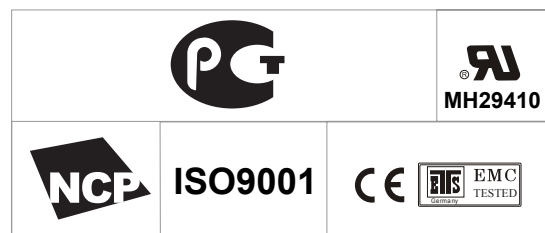
Nominal Voltage	12V									
Nominal Capacity (20HR)	7.0AH									
Dimension	Length	151 ± 2mm (5.95 inches)								
	Width	65 ± 2mm (2.54 inches)								
	Container Height	95 ± 2mm (3.72 inches)								
	Total Height (with Terminal)	101 ± 2mm (3.94 inches)								
Approx Weight	Approx 2.30g (4.81lbs)									
Terminal	T1									
Container Material	ABS									
Rated Capacity	7.00 AH	20HR (0.35A, 1.75V)								
	6.65 AH	10HR (0.665A, 1.75A)								
	5.95AH	5HR (1.19A, 1.75A)								
	4.2 AH	1HR (4.2A, 1.75A)								
Internal Resistance	Fully Charged at 25°C 0.02 Ohm									
Operating Temp. Range	Discharge: -15 ~ 50°C (5 ~ 120°F)									
	Charge: 0 ~ 40°C (5 ~ 120°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 0.3 A. Voltage 14.4-14.8V (-30mV/°C), max. Current: 2.16A									
	No limit on Initial Charging Current Voltage									
Standby Use	13.5V ~ 13.8V at 25°C (77°F) Temp. Coefficient -10mV/°C									
	Capacity affected by Temperature	<table border="1"> <tr> <td>40°C (104°F)</td> <td>103%</td> </tr> <tr> <td>25°C (77°F)</td> <td>100%</td> </tr> <tr> <td>0°C (32°F)</td> <td>86%</td> </tr> <tr> <td>-15°C (32°F)</td> <td>65%</td> </tr> </table>		40°C (104°F)	103%	25°C (77°F)	100%	0°C (32°F)	86%	-15°C (32°F)
40°C (104°F)	103%									
25°C (77°F)	100%									
0°C (32°F)	86%									
-15°C (32°F)	65%									

Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system

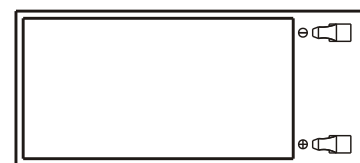
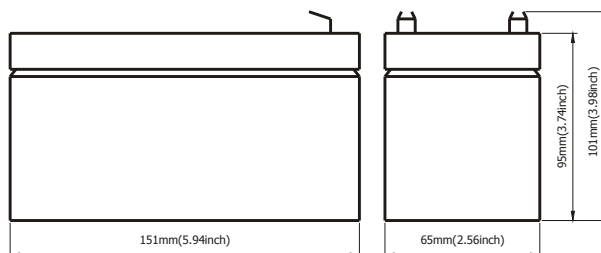
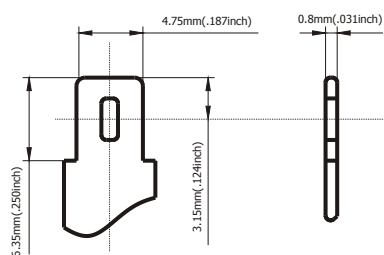
Self Discharge

Ultracell batteries may be stored for up to 6 months at 25°C (77°F) and then a refresh charge is required. 3% of capacity declined per month at 25°C.



Dimensions

T1 Terminal Unit: mm [inches]



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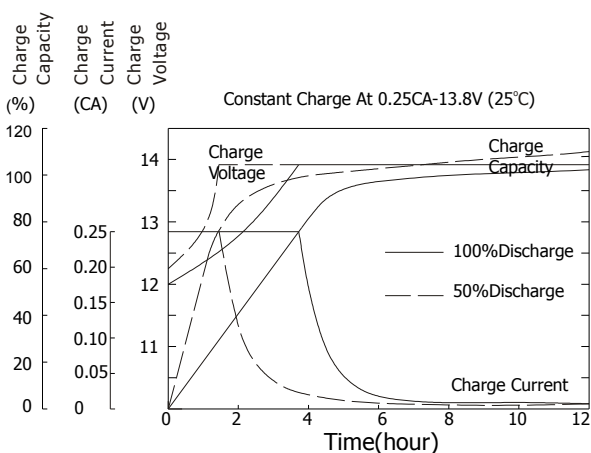
Constant Current Discharge (Amperes) at 25 °C (77 °F)

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	27.6	16.9	12.8	7.83	4.20	2.18	1.29	0.71	0.39
1.67V	25.6	16.2	12.4	7.50	4.16	1.85	1.26	0.70	0.37
1.70V	23.7	15.5	12.0	6.80	4.00	1.75	1.23	0.67	0.36
1.75V	23.4	15.1	11.7	6.48	3.92	1.70	1.19	0.67	0.35
1.80V	20.7	14.4	10.6	6.00	3.65	1.67	1.18	0.67	0.35
1.85V	18.3	13.7	9.49	5.50	3.54	1.64	1.18	0.52	0.35

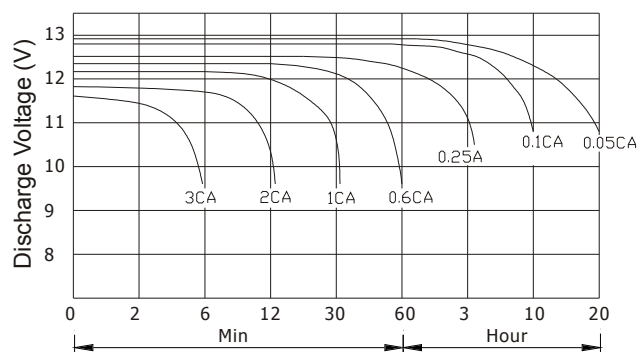
Constant Power Discharge (Watts) at 25 °C (77 °F)

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	56.0	36.4	28.0	16.2	9.10	3.54	2.41	1.36	0.71
1.67V	54.2	35.6	27.6	16.0	9.00	3.53	2.40	1.36	0.71
1.70V	51.9	35.0	26.9	15.7	8.90	3.50	2.39	1.35	0.70
1.75V	48.9	33.6	26.0	15.3	8.77	3.47	2.38	1.34	0.70
1.80V	42.4	31.1	24.9	14.8	8.48	3.42	2.35	1.33	0.69
1.85V	40.0	28.8	23.8	14.1	8.29	3.36	2.32	1.33	0.69

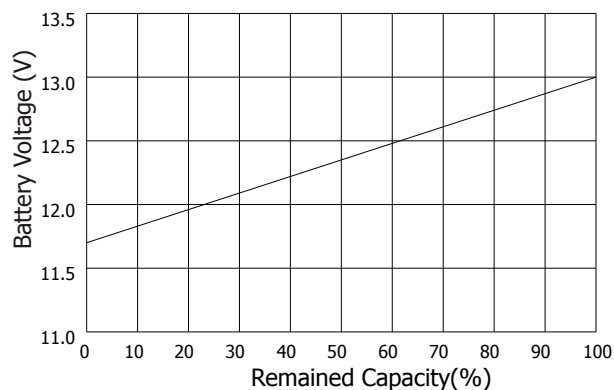
Charge Characteristic



Discharge Characteristic 25oC



Relationship of OCV and state of charge



Self Discharge Characteristics

