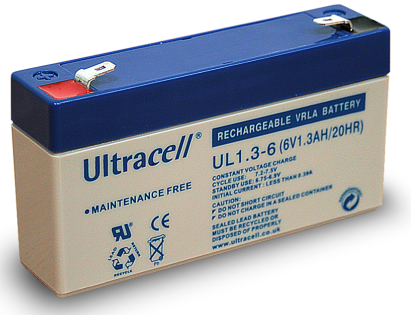
UL 1.3 - 6
6V 1.3AH
STANDBY

Ultracell®
'**Quality** in Every Language'

Image



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

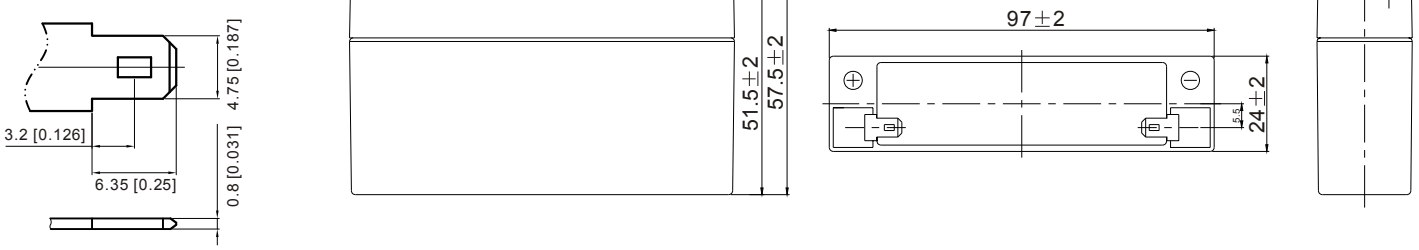
VdS | MH29410 | NCP | ISO9001 | CE EMC TESTED

Specification

Nominal Voltage	6V	
Nominal Capacity (20HR)	1.3AH	
Dimension	Length	97 ± 2mm (3.82 inches)
	Width	24 ± 2mm (0.94 inches)
	Container Height	51.5 ± 2mm (2.03 inches)
	Total Height (with Terminal)	57.5 ± 2mm (2.26 inches)
Approx Weight	Approx 0.30g (0.62lbs)	
Terminal	F1	
Container Material	ABS	
Rated Capacity	1.30 AH/0.060A	(20hr,1.80V/cell, 25°C / 77°F)
	1.12 AH/0.112A	(10hr,1.80V/cell, 25°C / 77°F)
	1.02 AH/0.204A	(5hr,1.75V/cell, 25°C / 77°F)
	0.918 AH/0.306A	(3hr,1.75V/cell, 25°C / 77°F)
	0.754 AH/0.754A	(1hr,1.60V/cell, 25°C / 77°F)
Max Discharge Current	18A (5s)	
Internal Resistance	Approx 65mΩ	
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	Inital Charging Current less than 0.3 A.Voltage	
	7.2V ~ 7.5V at 25°C (77°F) Temp. Coefficient -15mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	6.75V ~ 6.9V at 25°C (77°F) Temp. Coefficient -10mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
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

F1 Terminal



CE 1188 MH 29410

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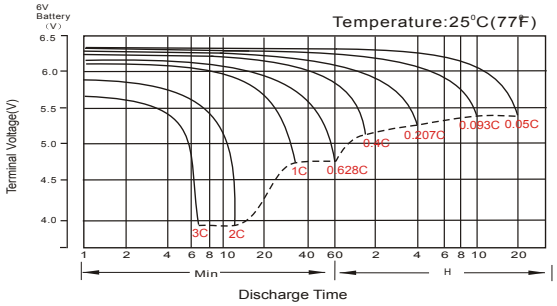
Constant Current Discharge (Amperes) at 25 °C (77 °F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	2.29	1.75	1.45	1.26	0.97	0.716	0.603	0.357	0.279	0.227	0.185	0.161	0.130	0.108	0.0594
1.80V/cell	3.07	2.24	1.76	1.49	1.15	0.833	0.676	0.390	0.300	0.242	0.199	0.172	0.137	0.112	0.0600
1.75V/cell	3.46	2.46	1.92	1.60	1.19	0.864	0.707	0.404	0.306	0.248	0.204	0.177	0.140	0.115	0.0606
1.70V/cell	3.81	2.69	2.05	1.68	1.24	0.899	0.729	0.414	0.315	0.254	0.209	0.181	0.142	0.117	0.0617
1.65V/cell	4.20	2.90	2.18	1.78	1.31	0.921	0.746	0.420	0.328	0.263	0.215	0.185	0.144	0.119	0.0625
1.60V/cell	4.63	3.15	2.33	1.90	1.38	0.960	0.754	0.438	0.338	0.271	0.222	0.189	0.145	0.121	0.0629

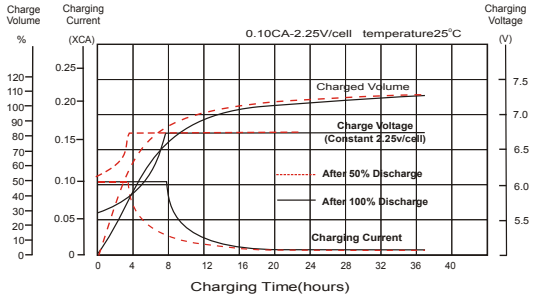
Constant Power Discharge (Watts) at 25 °C (77 °F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	4.18	3.24	2.71	2.37	1.85	1.38	1.16	0.693	0.544	0.444	0.363	0.316	0.256	0.214	0.118
1.80V/cell	5.55	4.09	3.23	2.76	2.15	1.59	1.30	0.751	0.582	0.471	0.388	0.337	0.271	0.221	0.119
1.75V/cell	6.12	4.43	3.49	2.94	2.22	1.63	1.35	0.776	0.591	0.480	0.397	0.346	0.275	0.226	0.120
1.70V/cell	6.56	4.71	3.67	3.07	2.29	1.69	1.39	0.794	0.606	0.492	0.406	0.352	0.278	0.231	0.122
1.65V/cell	7.13	5.04	3.87	3.23	2.40	1.72	1.41	0.801	0.629	0.507	0.416	0.359	0.282	0.235	0.123
1.60V/cell	7.68	5.35	4.08	3.41	2.52	1.78	1.42	0.831	0.645	0.521	0.428	0.365	0.284	0.237	0.124

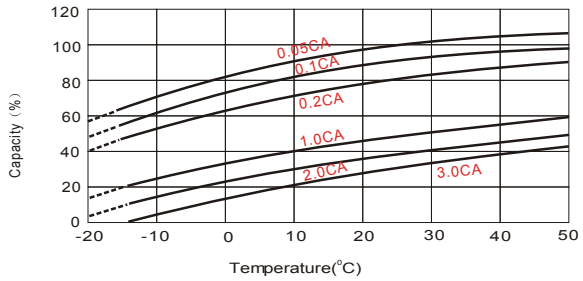
Discharge Characteristics



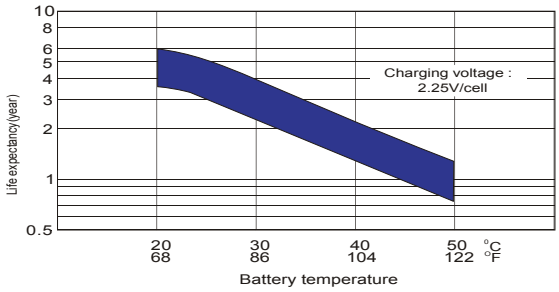
Float Charging Characteristics



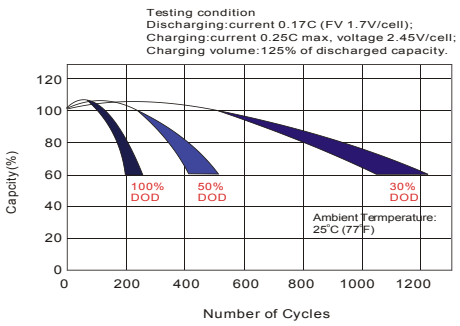
Temperature Effects in Relation to Battery Capacity



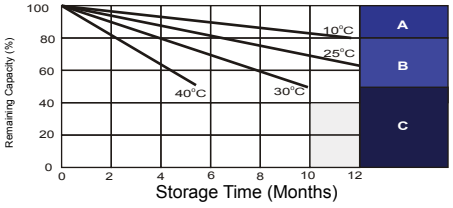
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary required
(Carryout supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use. Optional charging way as below:
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.25Vcell.
3. Charged for 8 ~ 10 hours at limited current 0.05 CA.

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

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