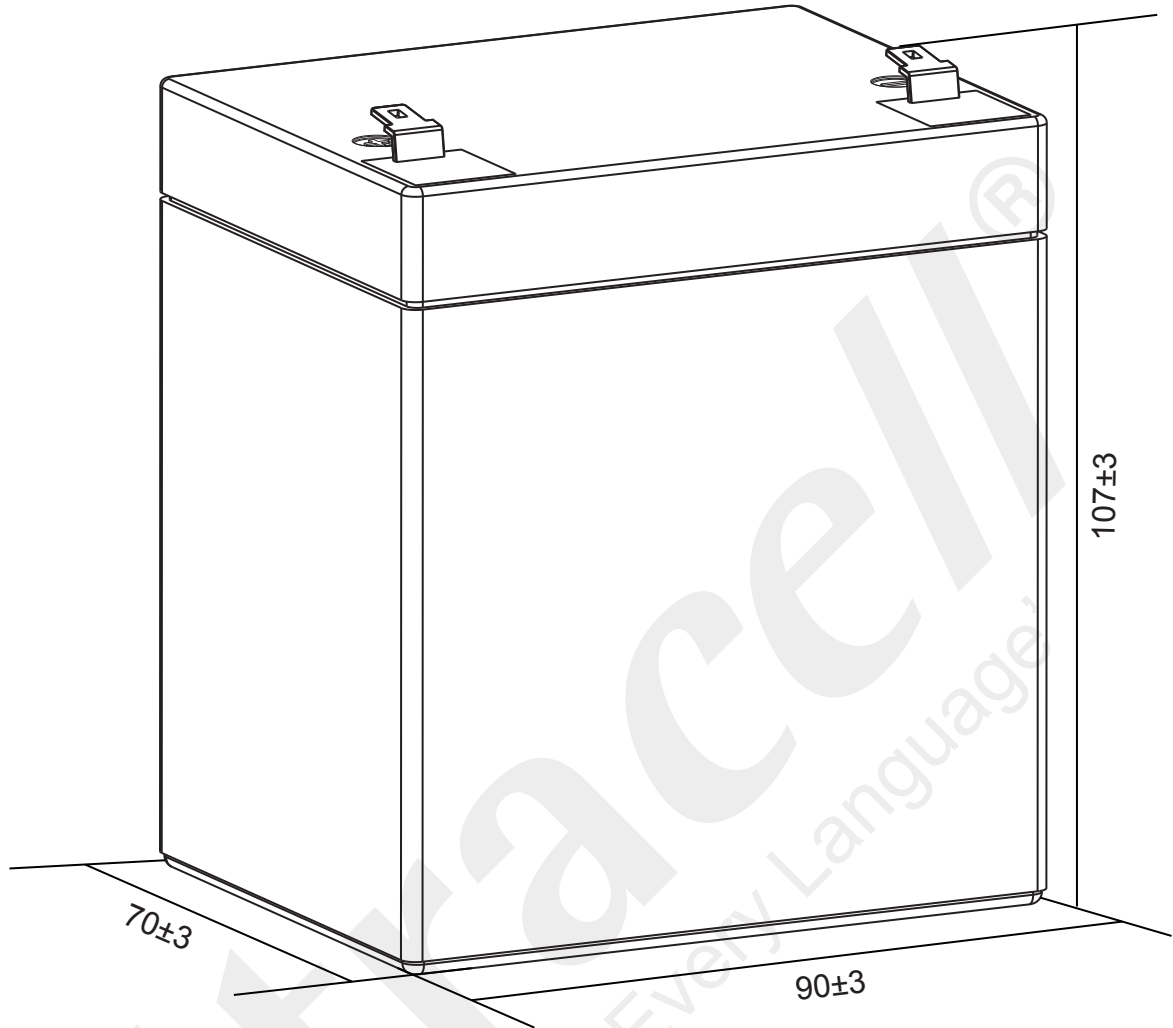


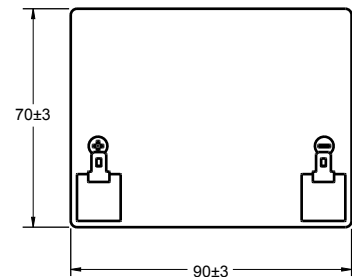
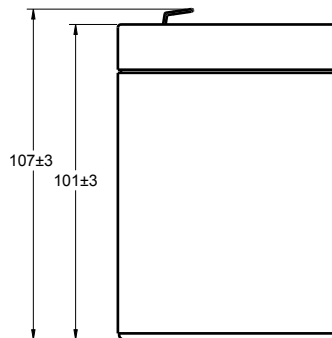
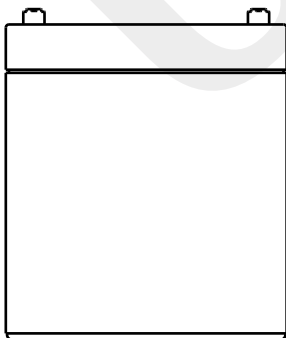
Ultracell®

'Quality in Every Language'

UHR5.4-12
12V 5.4AH
24W₁₅1.67V/CELL
High Rated UPS Series



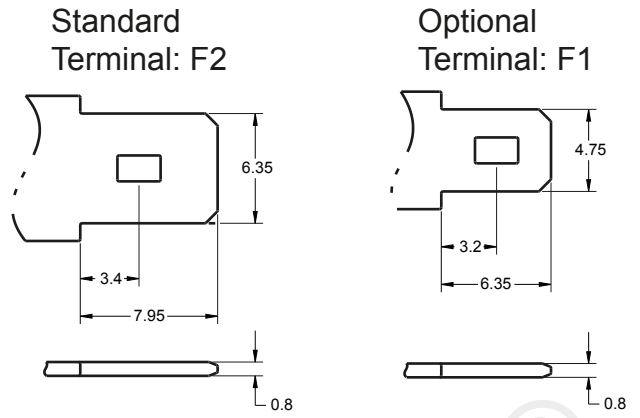
Technical Dimensions (mm)



Image



Terminal Dimensions (mm)



Technical Specification

Output	Nominal Voltage	12V
	Watts @ 15 min, 1.67V/cell	24W
Terminal Type	Standard Terminal	F2
	Optional Terminal	F1
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	(10HR 1.80V/cell, 25°C)	5.40 Ah/0.540A
	(8HR 1.80V/cell, 25°C)	5.20 Ah/0.650A
	(5HR 1.75V/cell, 25°C)	4.90 Ah/0.980A
	(3HR 1.75V/cell, 25°C)	4.50 Ah/1.50A
	(1HR 1.60V/cell, 25°C)	4.78 Ah/4.78A
Max Discharge Current	90A (5s)	
Internal Resistance	Approx 28mΩ	
Discharge Characteristics	Operating Temp Range	Discharge: -15 ~ 50°C Charge: 0 ~ 50°C Storage: -15 ~ 40°C
	Nominal Operating Temp Range	25 ± 3°C
	Cycle Use	Initial Charging Current less than 1.8A. Voltage 14.1V ~ 14.4V @ 25°C Temp. Coefficient -3mV/°C
	Standby Use	Initial Charging Current less than 1.8A. Voltage 13.5V @ 25°C Temp. Coefficient -3mV/°C
	Capacity affected by Temperature	40°C 103% 25°C 100% 0°C 86%
Design Floating Life at 20°C	12 Years	

Constant Current Discharge / Constant Power Discharge At 25°C (Amperes & Watts/Cell)

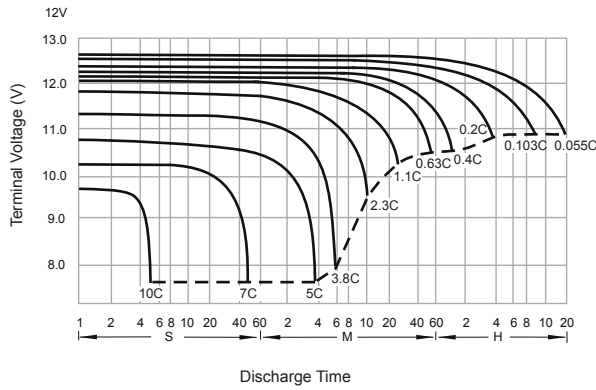
A = Amperes W = Watts

F.V/TIME	5 min	10 min	15 min	20 min	30 min	45 min	60 min	2 hours	3 hours	4 hours	5 hours	6 hours	8 hours	10 hours
A	W	A	W	A	W	A	W	A	W	A	W	A	W	A
1.85V/cell	17.7 33.8	11.8 22.6	9.69 18.6	7.73 14.9	5.43 10.5	3.87 7.51	3.01 5.86	2.25 4.39	1.80 3.52	1.35 2.65	1.07 2.10	0.890 1.75	0.607 1.20	0.497 0.983
1.80V/cell	20.7 38.9	13.9 26.3	11.3 21.4	8.90 17.0	6.14 11.8	4.33 8.33	3.33 6.44	2.46 4.78	1.96 3.81	1.46 2.85	1.15 2.25	0.959 1.88	0.650 1.28	0.540 1.05
1.75V/cell	22.6 41.9	14.9 27.9	11.9 22.4	9.34 17.7	6.42 12.2	4.51 8.61	3.46 6.63	2.55 4.91	2.02 3.91	1.50 2.91	1.18 2.30	0.980 1.92	0.662 1.30	0.546 1.06
1.70V/cell	24.4 44.8	15.9 29.4	12.6 23.5	9.83 18.4	6.70 12.6	4.68 8.86	3.58 6.82	2.63 5.04	2.09 4.01	1.54 2.99	1.21 2.35	1.00 1.96	0.673 1.32	0.547 1.08
1.67V/cell	25.5 46.4	16.5 30.3	13.0 24.0	10.1 18.8	6.87 12.9	4.78 9.02	3.66 6.93	2.68 5.12	2.12 4.07	1.57 3.02	1.23 2.38	1.02 1.98	0.680 1.33	0.552 1.09
1.60V/cell	28.1 50.5	17.9 32.4	13.9 25.4	10.7 19.7	7.25 13.4	5.03 9.38	3.84 7.20	2.80 5.30	2.21 4.20	1.62 3.12	1.27 2.45	1.05 2.03	0.696 1.36	0.563 1.11

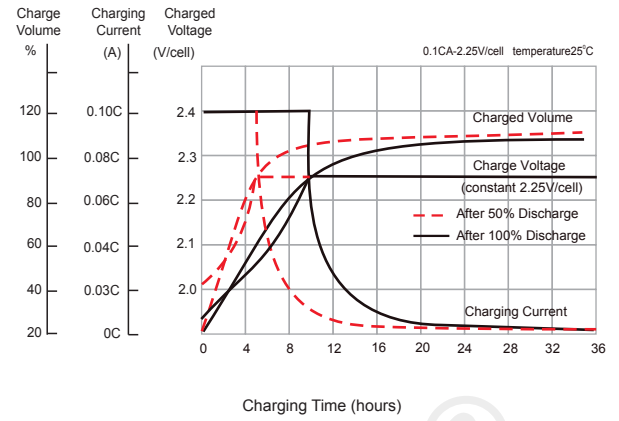




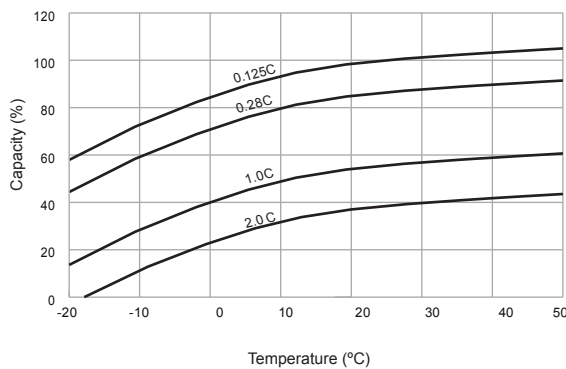
Discharge Characteristics



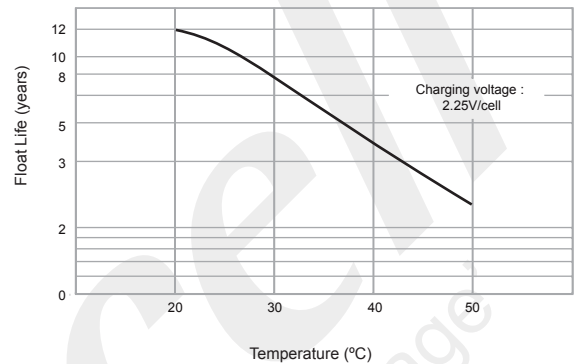
Float Charging Characteristics



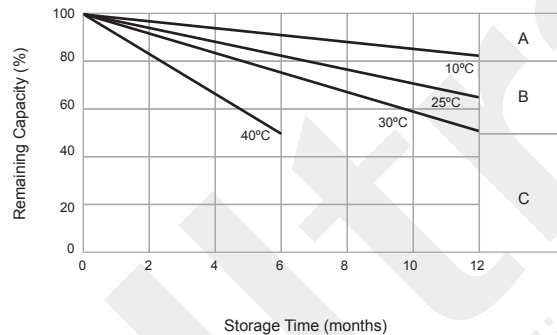
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



General Relation of Capacity vs. Storage Time



General Relation of Capacity vs. Storage Time (Notes)

- A) No supplementary charge 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 2.45V/cell.
 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 till this is reached.