



The power for your life

# UR12V-7AH

## Specifications

### Nominal Capacity

20 hour rate	(0.35A	to	10.50V)	7Ah
10 hour rate	(0.63A	to	10.50V)	6.3Ah
5 hour rate	(1.131A	to	10.20V)	5.65Ah
1 C	(7A	to	9.60V)	3.5Ah
3 C	(21A	to	9.60V)	2.1Ah

**Weight** Approx. 2.5KG

**Internal Resistance (at 1KHz)** Approx. 28 mΩ

**Maximum Discharge Current for 5 seconds:** 105A

**Maximum Charging Current :** 2.7A

### Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -5.0mV/°C/cell

Standby use:

Float Charging Voltage 13.5 to 13.8V

Coefficient -3.0mV/°C/cell

### Operating Temperature Range

Charge -15°C(5°F) to 40°C(104°F)

Discharge -15°C(5°F) to 50°C(122°F)

Storage -15°C(5°F) to 40°C(104°F)

### Charge Retention (shelf life) at 20°C (68°F)

1 month 92%

3 month 90%

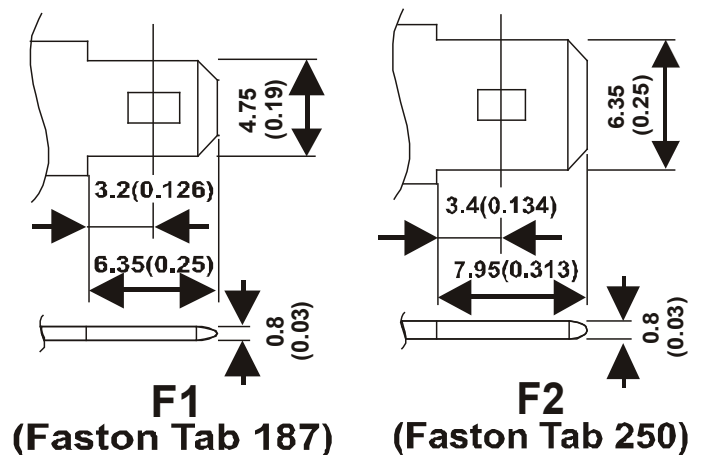
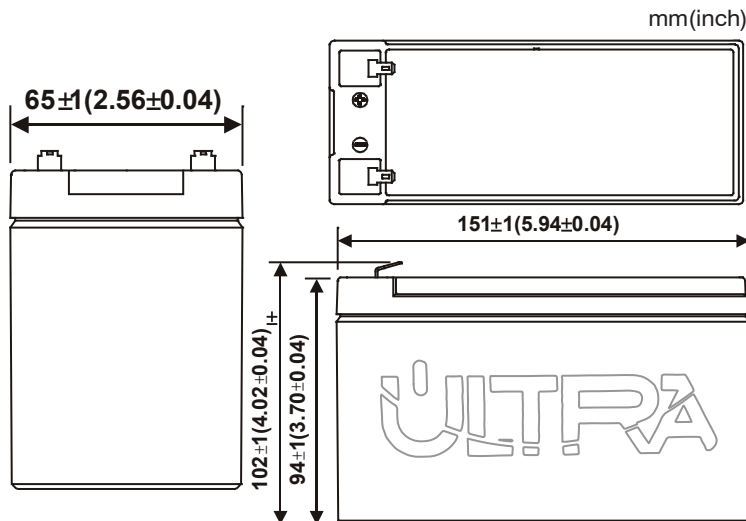
6 month 80%

**Case Material** ABS UL94 HB

Option: Flammability resistance of (UL94 V-0)

**Terminal** F1 or F2 (Faston Tab 187 or 250)

**Life Time** 10Y

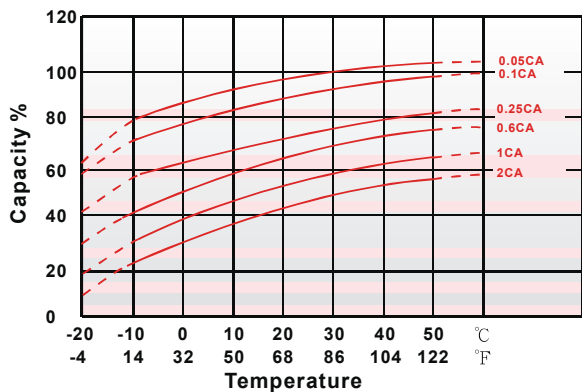


## Dimensions

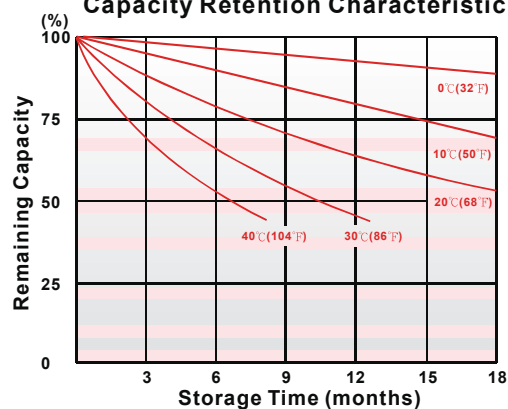
Length:	151±1mm(5.94±0.04inches)
Width:	65±1mm(2.56±0.04inches)
Height:	94±1mm(3.70±0.04inches)
Overall Height:	102±1mm(4.02±0.04inches)



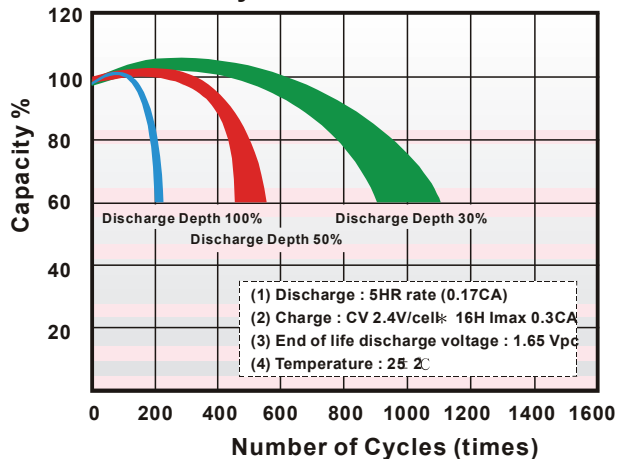
### Effect of Temperature on Capacity 25°C(77°F)



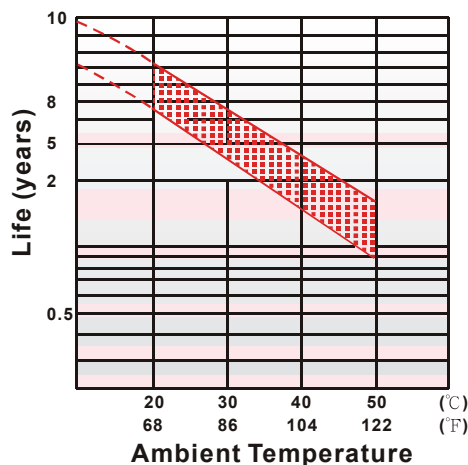
### Capacity Retention Characteristic



### Cycle Service Life



### Trickle (or float) Service Life



# PERFORMANCE DATA

## Discharge Rates in Watts to Various End Voltages at 25°C (77°F)

end voltage	5 min	10 min	15 min	20 min	30 min	45 min	1 hour	2 hour	3 hour	5 hour	10 hour	20 hour
09.60	280	191	148	120	89.8	66.5	53.8	30.7	21.8	14.1	7.85	4.34
09.90	272	189	146	119	88.8	65.9	53.3	30.5	21.7	14.1	7.84	4.34
10.02	268	186	143	118	88.3	65.6	53.1	30.2	21.6	14.0	7.83	4.33
10.20	261	183	141	117	87.8	65.4	52.8	30.0	21.4	13.9	7.80	4.33
10.50	251	179	138	115	86.9	64.9	52.3	29.6	21.2	13.8	7.73	4.29
10.80	239	173	135	113	85.7	64.0	52.18	29.3	21.00	13.1	7.50	4.21

## Discharge Rates in Amperes to Various End Voltages at 25°C(77°F)

end voltage	5 min	10 min	15 min	20 min	30 min	45 min	1 hour	2 hour	3 hour	5 hour	10 hour	20 hour
09.60	28.0	18.6	14.1	11.3	8.22	5.98	4.78	2.69	1.90	1.22	0.68	0.37
09.90	27.1	18.3	13.8	11.1	8.11	5.91	4.73	2.66	1.88	1.21	0.67	0.37
10.02	26.7	18.0	13.5	11.0	8.05	5.88	4.70	2.64	1.87	1.20	0.67	0.37
10.20	26.0	17.7	13.4	10.9	7.99	5.85	4.67	2.62	1.85	1.19	0.67	0.37
10.50	24.9	17.2	13.0	10.7	7.88	5.78	4.61	2.57	1.82	1.18	0.66	0.36
10.80	23.5	16.5	12.6	10.4	7.71	5.67	4.55	2.53	1.71	1.12	0.63	0.35

All data on the spec. sheet is an average value:

The tolerance range :  $X < 6\text{min}$ (+15%~-15%),  $6\text{min} \leq X < 10\text{min}$ (+12%~-12%),  $10\text{min} \leq X < 60\text{min}$ (+8%~-8%),  $X \geq 60\text{min}$ (+5%~-5%)

