



The power for your life

# UR12V-5AH

## Specifications

### Nominal Capacity

20 hour rate	(0.25A to 10.50V)	5Ah
10 hour rate	(0.475A to 10.50V)	4.75Ah
5 hour rate	(0.85A to 10.20V)	4.25Ah
1 C	(5A to 9.60V)	2.833Ah
3 C	(15A to 9.60V)	2.0Ah

**Weight** Approx. 1.8KG

**Internal Resistance (at 1KHz)** Approx. 19 mΩ

**Maximum Discharge Current for 5 seconds:** 75A

**Maximum Charging Current :** 1.5A

### 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 (shel life) at 20°C (68°F)

1 month 92%

3 month 90%

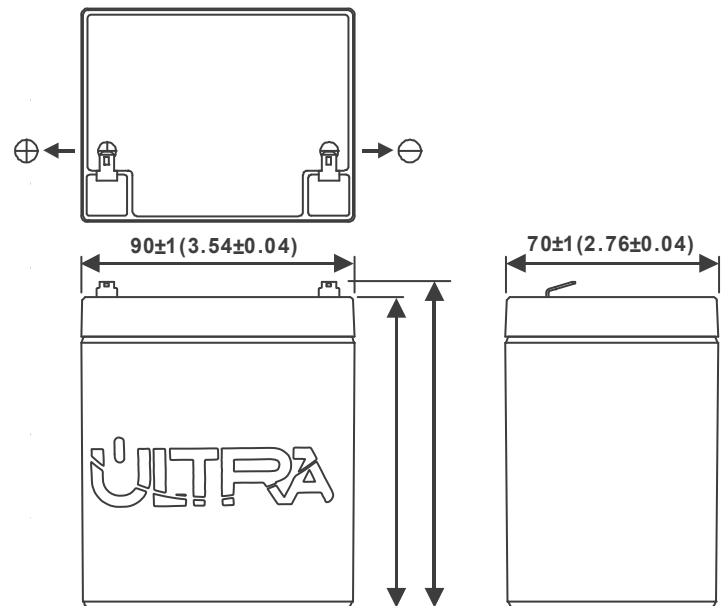
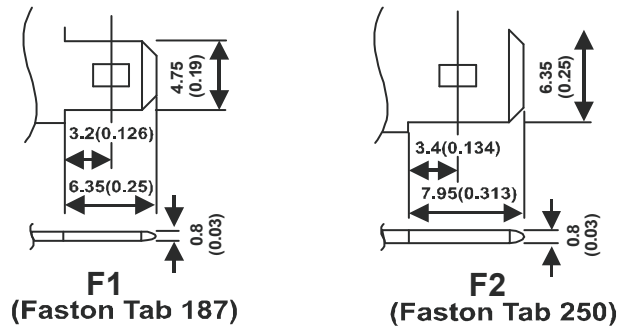
6 month 80%

**Case Material** ABS

(Option: UL94 HB & UL94 V-0 flame retardant)

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

**Life Time** 10Y

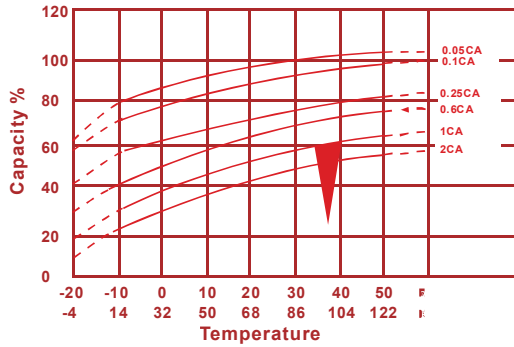


## Dimensions

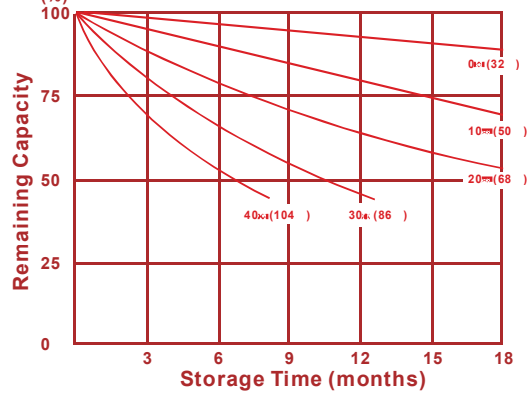
Length:	90±1mm(3.54±0.04inches)
Width:	70±1mm(2.76±0.04inches)
Height:	107±1mm(3.98±0.04inches)
Overall Height:	107±1mm(4.21±0.04inches)



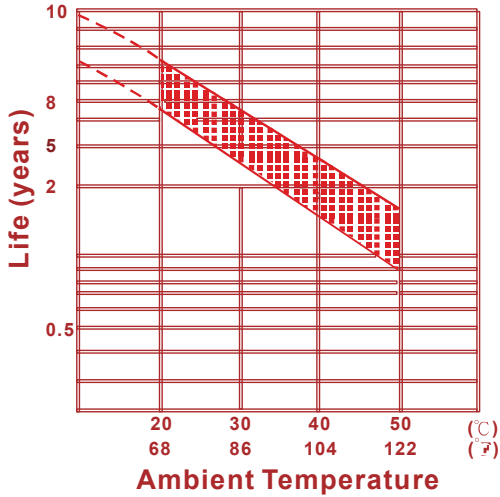
Effect of Temperature on Capacity 25°C(77°F)



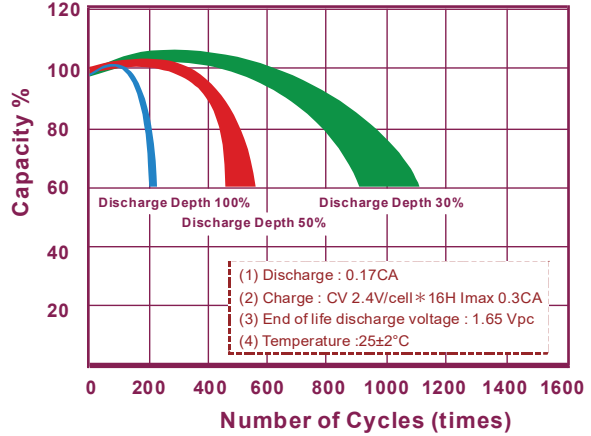
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle 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	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
9.6	26.5	16.5	11	6.24	4.36	3.42	1.93	1.45	1.16	0.95	0.81	0.64	0.52	0.26
9.9	25.7	16.1	10.8	6.16	4.3	3.36	1.88	1.42	1.13	0.93	0.8	0.63	0.51	0.256
10.02	25.1	15.8	10.7	6.12	4.26	3.33	1.85	1.4	1.12	0.92	0.79	0.62	0.51	0.254
10.2	24.6	15.4	10.6	6.08	4.22	3.3	1.82	1.37	1.11	0.91	0.78	0.62	0.51	0.253
10.5	22.8	15	10.4	5.96	4.13	3.22	1.74	1.32	1.07	0.89	0.77	0.61	0.5	0.25
10.8	20.7	14.1	10	5.86	3.98	3.05	1.65	1.26	1.03	0.87	0.75	0.6	0.49	0.248
11.1	17	12.6	9.45	5.56	3.78	2.9	1.54	1.19	0.96	0.83	0.72	0.58	0.48	0.235

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

end voltage	5 min	10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
9.6	268.8	184.8	135.6	73.8	51.48	40.38	22.38	17.82	14.28	11.94	10.38	8.7	7.26	3.078
9.9	259.8	178.8	132.6	73.2	50.76	39.6	21.72	17.34	13.98	11.76	10.26	8.58	7.14	3.03
10.02	254.4	175.8	130.8	72	50.04	38.94	21.3	17.04	13.8	11.64	10.14	8.52	7.08	3.012
10.2	248.4	172.8	128.4	71.4	49.32	38.28	20.88	16.8	13.56	11.52	10.02	8.46	7.02	3
10.5	237	166.8	124.8	69	47.7	36.96	20.16	16.08	13.2	11.34	9.9	8.28	6.9	2.964
10.8	225.6	158.4	121.2	66.6	46.2	35.82	19.32	15.36	12.54	10.92	9.48	7.86	6.54	2.94
11.1	207.6	147	112.8	64.2	43.98	34.02	17.88	14.28	11.76	10.08	8.76	7.32	6.06	2.796

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%),  $X \leq 60\text{min}$ (+5%~-5%)

