

## WP2.2-12 12Volt 2.2Ah

### Specifications

Nominal Voltage(V) **12V**

#### Nominal Capacity

20 hour rate	(0.11A to 10.50V)	<b>2.2Ah</b>
10 hour rate	(0.209A to 10.50V)	<b>2.09Ah</b>
5 hour rate	(0.374A to 10.20V)	<b>1.87Ah</b>
1 C	(2.2A to 9.60V)	<b>1.25Ah</b>
3 C	(6.6A to 9.60V)	<b>0.88Ah</b>

Weight **Approx. 1kg(2.2Lbs.)**

Internal Resistance (at 1KHz) **Approx. 37 mΩ**

#### Maximum Discharge Current for

5 seconds: **33A**

#### Charging Methods at 25°C (77°F)

##### Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient **-5.0mV/°C/cell**

Maximum Charging Current : **0.66A**

##### 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	<b>92%</b>
3 month	<b>90%</b>
6 month	<b>80%</b>

Case Material **ABS**

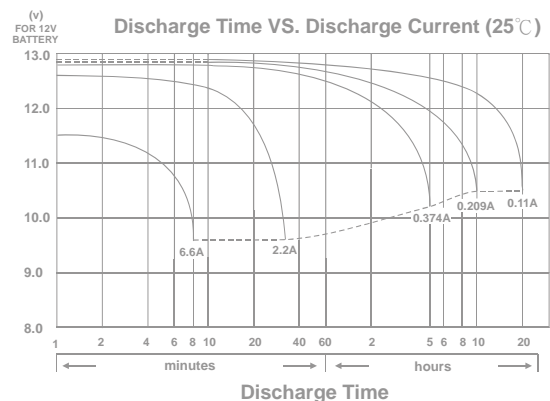
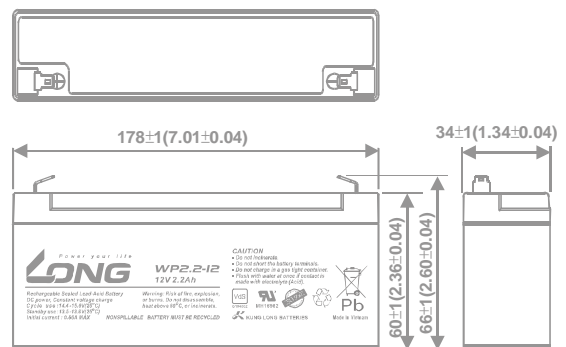
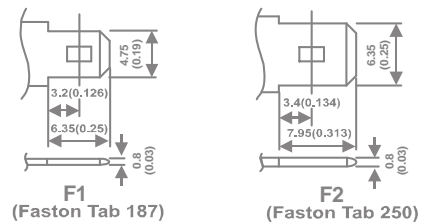
(Option: UL94 HB & UL94 V-0 flame retardant )

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

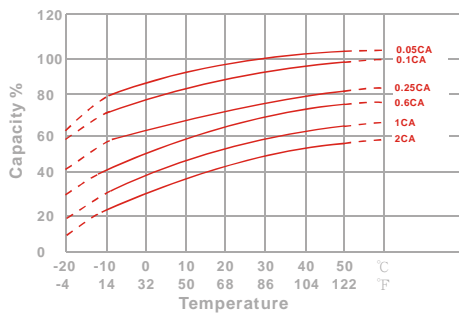


### Dimensions

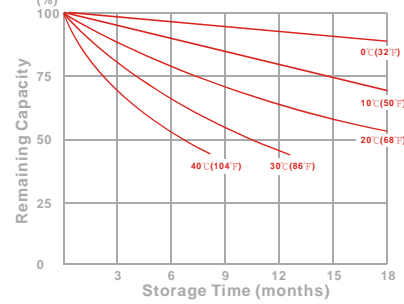
mm(inch)



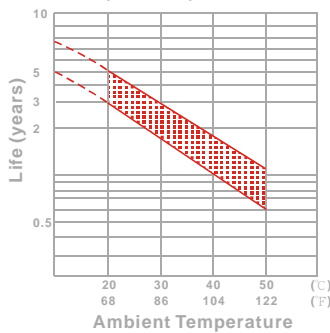
Effect of Temperature on Capacity 25°C(77°F)



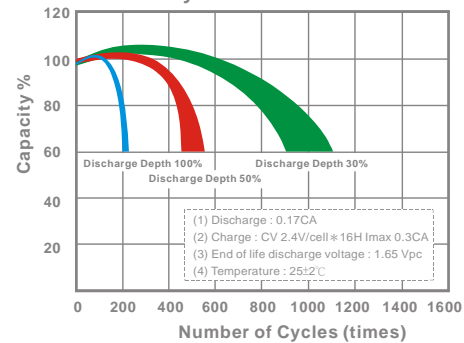
Capacity Retention Characteristic



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		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	66.9	81.5	88.4	91.2	92.8	94.1	96.4
10	min	46.2	55.9	60.1	63.1	64.2	64.5	65.5
15	min	40.3	44.8	46.2	47.4	47.8	48.0	48.6
30	min	21.6	23.3	24.1	24.8	24.9	25.3	25.6
60	min	13.5	14.6	15.5	16.0	16.1	16.3	16.4
120	min	8.08	8.79	9.18	9.54	9.67	9.85	10.1
180	min	6.05	6.66	6.92	7.15	7.23	7.33	7.48
240	min	4.94	5.35	5.59	5.77	5.84	5.91	5.97
300	min	4.13	4.59	4.72	4.81	4.84	4.88	4.92
600	min	2.43	2.65	2.73	2.78	2.80	2.82	2.84
1200	min	1.32	1.38	1.42	1.45	1.46	1.47	1.48

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	7.24	7.85	8.36	8.79	8.99	9.16	9.45
10	min	4.55	5.10	5.39	5.61	5.68	5.77	5.88
15	min	3.64	3.88	4.05	4.18	4.23	4.27	4.33
30	min	1.85	2.04	2.13	2.20	2.22	2.25	2.29
60	min	1.18	1.27	1.32	1.36	1.37	1.39	1.41
120	min	0.655	0.718	0.752	0.783	0.796	0.813	0.836
180	min	0.486	0.538	0.561	0.583	0.591	0.601	0.615
240	min	0.393	0.429	0.451	0.470	0.475	0.483	0.491
300	min	0.351	0.369	0.382	0.390	0.394	0.399	0.404
600	min	0.208	0.216	0.222	0.227	0.228	0.230	0.232
1200	min	0.109	0.113	0.116	0.118	0.119	0.120	0.121

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%)