

WP12-12 12Volt 12Ah

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

20 hour rate	(0.6A)	to	10.50V)	12Ah
10 hour rate	(1.14A)	to	10.50V)	11.4Ah
5 hour rate	(2.04A)	to	10.20V)	10.2Ah
1 C	(12A)	to	9.60V)	6.8Ah
3 C	(36A)	to	9.60V)	4.8Ah

Weight **Approx. 4.1kg(9.02Lbs.)**

Internal Resistance (at 1KHz) **Approx. 13 mΩ**

Maximum Discharge Current for

5 seconds: **180A**

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient **-5.0mV/°C/cell**

Maximum Charging Current : **3.6A**

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**

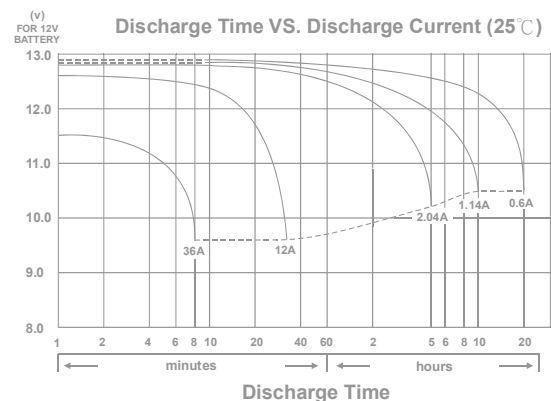
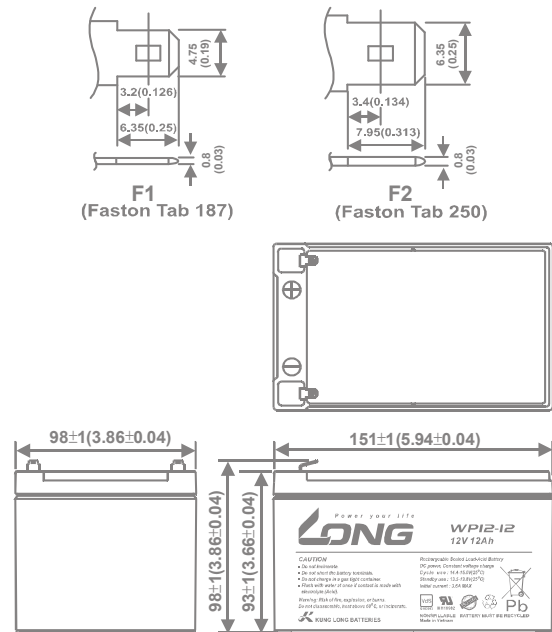
(Option: UL94 HB & UL94 V-0 flame retardant)

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

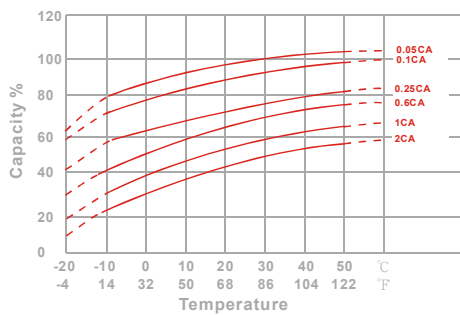


Dimensions

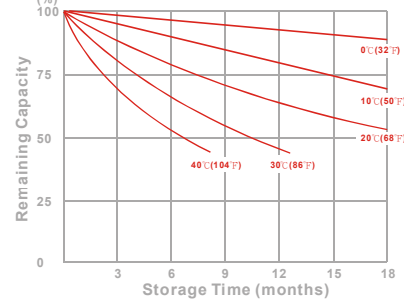
mm(inch)



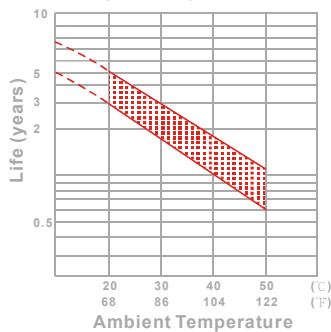
Effect of Temperature on Capacity 25°C(77°F)



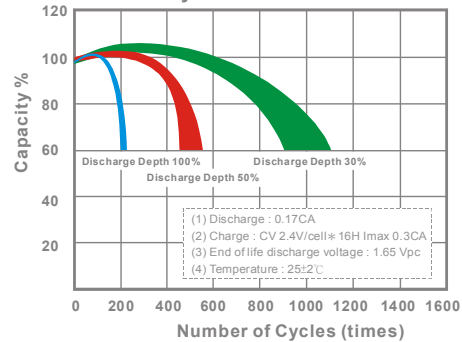
Capacity Retention Characteristic



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	407	453	487	522	538	554	584
10	min	302	329	343	358	363	371	380
15	min	235	249	258	267	270	275	282
30	min	136	145	151	155	157	159	161
60	min	95.2	98.5	101	103	105	106	107
120	min	52.6	54.3	55.1	55.7	55.9	56.2	56.7
180	min	34.6	35.9	37.0	37.9	38.3	38.8	39.2
240	min	29.2	29.8	30.3	30.9	31.2	31.7	32.1
300	min	24.4	25.2	25.8	26.5	26.7	27.0	27.6
600	min	14.4	14.8	15.0	15.2	15.3	15.4	15.5
1200	min	7.32	7.41	7.64	7.75	7.84	7.93	8.10

- 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	38.5	42.7	45.8	49.0	50.4	51.9	54.7
10	min	27.2	29.6	30.9	32.2	32.7	33.4	34.2
15	min	20.2	21.5	22.3	23.1	23.4	23.7	24.4
30	min	11.6	12.3	12.8	13.2	13.3	13.5	13.7
60	min	8.24	8.43	8.55	8.66	8.71	8.77	8.85
120	min	4.27	4.42	4.53	4.62	4.65	4.69	4.74
180	min	2.89	3.08	3.15	3.21	3.24	3.27	3.31
240	min	2.40	2.45	2.49	2.54	2.57	2.60	2.64
300	min	1.98	2.06	2.12	2.18	2.20	2.23	2.27
600	min	1.17	1.20	1.22	1.24	1.25	1.26	1.27
1200	min	0.599	0.606	0.625	0.634	0.641	0.649	0.663

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%)