

WP12-12E 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	7.6Ah
3 C	(36A)	to	9.60V	4.8Ah

Weight **Approx. 3.95kg(8.69Lbs.)**

Internal Resistance (at 1KHz) **Approx. 11 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 **13.50 to 13.80V**

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**

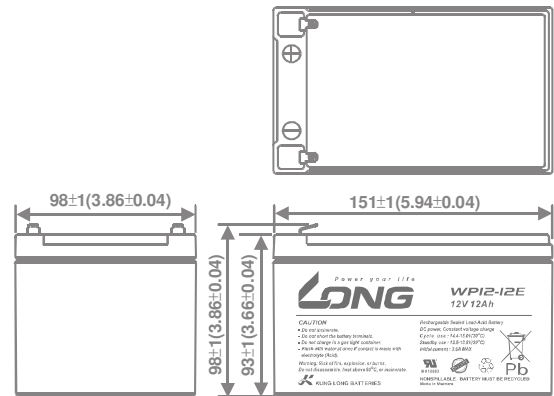
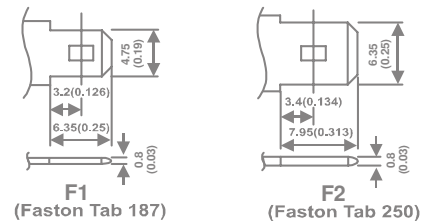
(Option: UL94 HB & UL94 V-0 flame retardant)

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

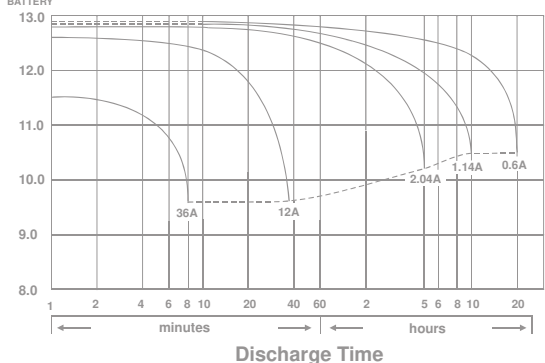


Dimensions

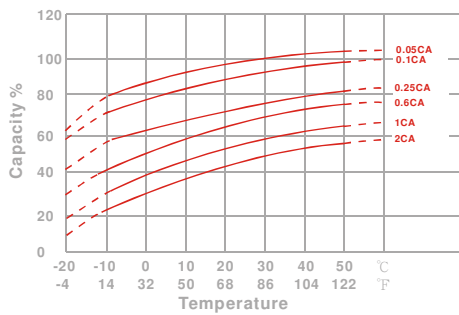
mm(inch)



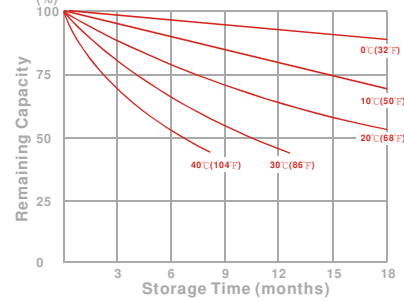
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



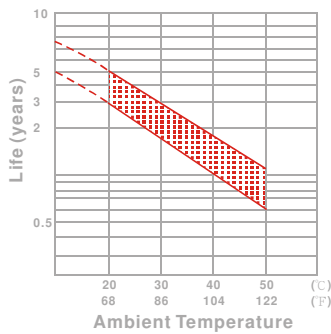
Effect of Temperature on Capacity 25°C(77°F)



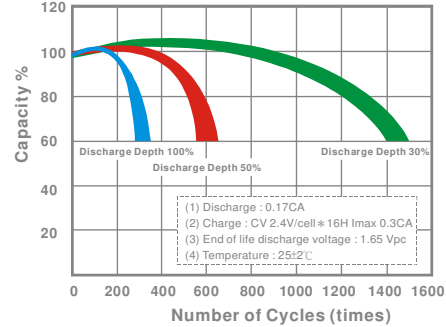
Capacity Retention Characteristic



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	463	505	536	569	584	598	627
10	min	339	362	378	392	397	405	413
15	min	253	272	283	291	295	299	306
30	min	160	168	174	180	182	184	187
60	min	89.5	95.2	100	103	104	105	106
120	min	46.8	51.6	54.1	55.3	55.7	56.3	57.1
180	min	32.4	36.9	39.2	40.1	41.8	42.6	43.2
240	min	26.6	29.8	31.3	32.2	32.6	33.1	33.7
300	min	24.7	26.1	27.1	27.9	28.3	28.6	29.0
600	min	14.6	15.3	15.7	16.0	16.1	16.2	16.3
1200	min	7.77	7.86	8.10	8.22	8.31	8.41	8.59

- 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	37.8	41.8	44.6	47.5	48.8	50.1	52.7
10	min	28.1	30.3	31.5	32.7	33.2	33.8	34.6
15	min	21.3	22.6	23.7	24.6	25.0	25.4	26.1
30	min	12.6	13.5	14.1	14.6	14.8	15.0	15.3
60	min	8.55	8.74	8.86	8.97	9.02	9.08	9.16
120	min	4.71	4.84	4.95	5.04	5.08	5.13	5.18
180	min	3.14	3.33	3.40	3.46	3.49	3.52	3.56
240	min	2.15	2.26	2.35	2.42	2.45	2.49	2.74
300	min	1.98	2.06	2.12	2.18	2.20	2.23	2.27
600	min	1.19	1.22	1.24	1.26	1.27	1.28	1.29
1200	min	0.619	0.626	0.645	0.654	0.661	0.669	0.683

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%)

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