

## WP12-6S 6Volt 12Ah

### Specifications

Nominal Voltage(V) **6V**

#### Nominal Capacity

20 hour rate	(0.6A)	to	5.25V	12Ah
10 hour rate	(1.14A)	to	5.25V	11.4Ah
5 hour rate	(2.04A)	to	5.1V	10.2Ah
1 C	(12A)	to	4.8V	6.8Ah
3 C	(36A)	to	4.8V	4.8Ah

Weight **Approx. 1.9kg(4.18Lbs.)**

Internal Resistance (at 1KHz) **Approx. 10 mΩ**

Maximum Discharge Current for 5 seconds: **180A**

#### Charging Methods at 25 (77 )

Cycle use:

Charging Voltage **7.20 to 7.50V**

Coefficient -5.0mv/ /cell

Maximum Charging Current : **3.6A**

Standby use:

Float Charging Voltage **6.75 to 6.90V**

Coefficient -3.0mv/ /cell

#### Operating Temperature Range

Charge **-15 (5 ) to 40 (104 )**

Discharge **-15 (5 ) to 50 (122 )**

Storage **-15 (5 ) to 40 (104 )**

#### Charge Retention (shelf life) at 20 (68 )

1 month **92%**

3 month **90%**

6 month **80%**

Case Material **ABS**

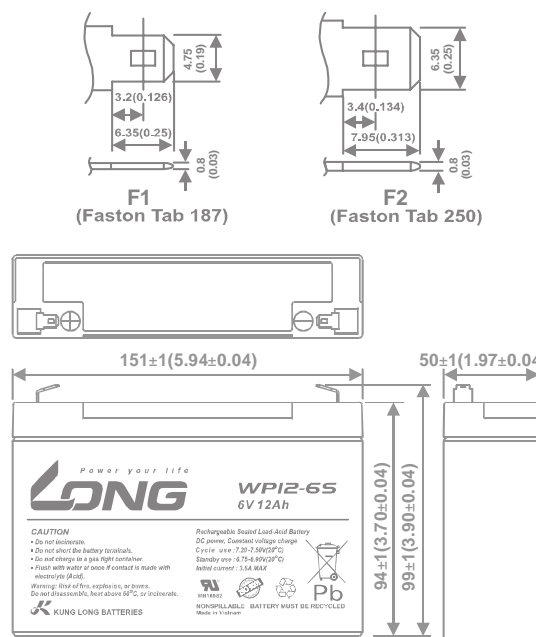
(Option: UL94 HB & UL94 V-0 flame retardant )

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

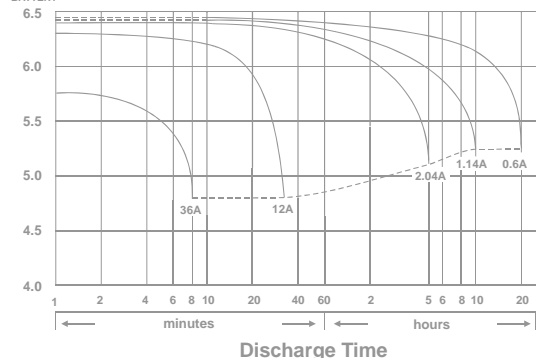


### Dimensions

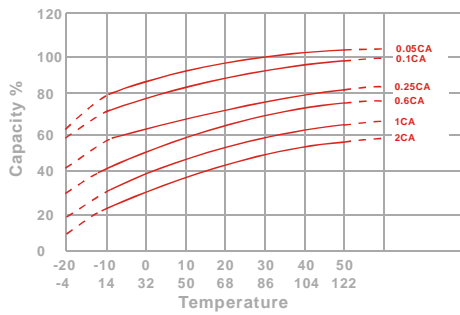
mm(inch)



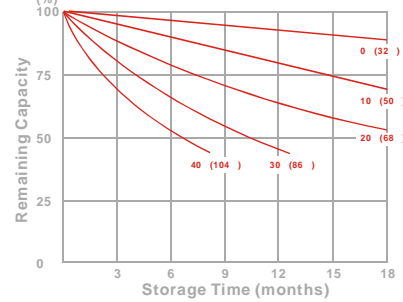
#### Discharge Time VS. Discharge Current (25 )



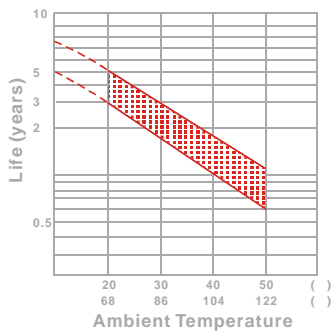
Effect of Temperature on Capacity 25 (77 )



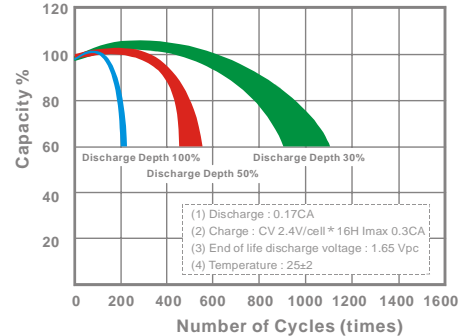
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



## - PERFORMANCE DATA

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	203	226	243	260	268	276	291
10	min	144	157	165	172	175	179	183
15	min	116	123	128	132	134	136	140
30	min	66.7	70.8	73.9	76.2	77.0	77.8	79.0
60	min	47.4	49.0	50.0	51.0	51.5	51.9	52.5
120	min	25.9	26.8	27.1	27.4	27.6	27.7	28.0
180	min	17.0	17.6	18.2	18.6	18.8	19.1	19.3
240	min	14.3	14.6	14.9	15.2	15.4	15.6	15.8
300	min	11.9	12.2	12.5	12.9	13.0	13.1	13.4
600	min	7.02	7.20	7.32	7.40	7.45	7.50	7.56
1200	min	3.58	3.62	3.74	3.79	3.84	3.88	3.97

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	37.2	41.4	44.5	47.7	49.1	50.6	53.4
10	min	25.7	28.1	29.4	30.7	31.2	31.9	32.7
15	min	20.3	21.6	22.4	23.2	23.5	23.8	24.5
30	min	11.4	12.1	12.6	13.0	13.1	13.3	13.5
60	min	8.21	8.40	8.52	8.63	8.68	8.74	8.82
120	min	4.21	4.36	4.47	4.56	4.59	4.63	4.68
180	min	2.87	3.06	3.13	3.19	3.22	3.25	3.29
240	min	2.38	2.43	2.47	2.52	2.55	2.58	2.62
300	min	1.97	2.03	2.08	2.14	2.16	2.19	2.23
600	min	1.16	1.18	1.20	1.22	1.23	1.24	1.25
1200	min	0.592	0.599	0.618	0.627	0.634	0.642	0.656

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

The tolerance range : X<6min(+15%~-15%), 6min X<10min(+12%~-12%),10min X < 60min(+8%~-8%), X 60min(+5%~-5%)

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