

## WP7-6 6Volt 7Ah

### Specifications

Nominal Voltage(V) **6V**

#### Nominal Capacity

20 hour rate	(0.35A to 5.25V)	7Ah
10 hour rate	(0.665A to 5.25V)	6.65Ah
5 hour rate	(1.19A to 5.1V)	5.95Ah
1 C	(7A to 4.8V)	3.97Ah
3 C	(21A to 4.8V)	2.8Ah

Weight **Approx. 1.2kg(2.64Lbs.)**

Internal Resistance (at 1KHz) **Approx. 12 mΩ**

#### Maximum Discharge Current for

5 seconds: **105A**

#### Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage **7.20 to 7.50V**

Coefficient **-5.0mV/°C/cell**

Maximum Charging Current : **2.1A**

Standby use:

Float Charging Voltage **6.75 to 6.90V**

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**

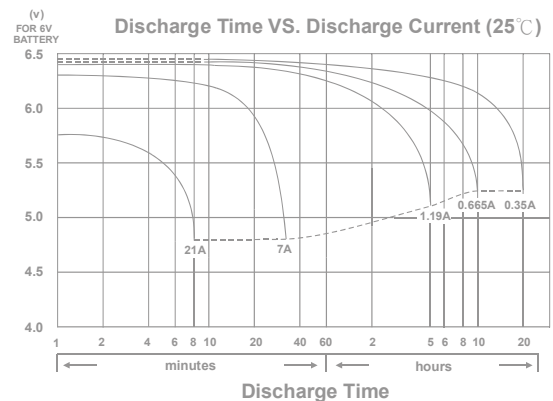
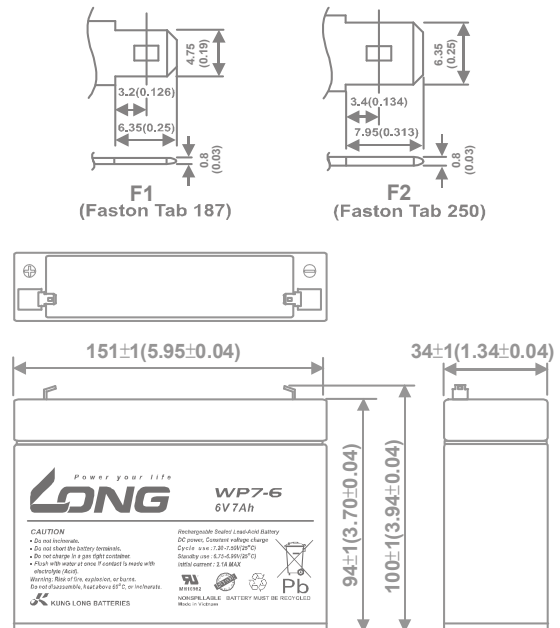
(Option: UL94 HB & UL94 V-0 flame retardant )

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

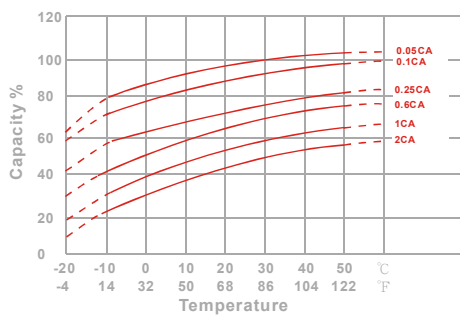


### Dimensions

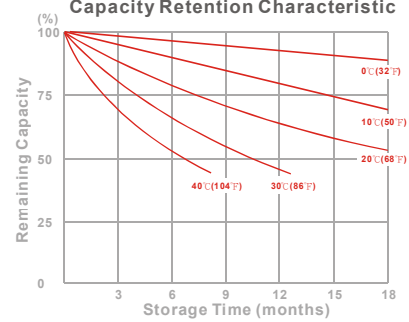
mm(inch)



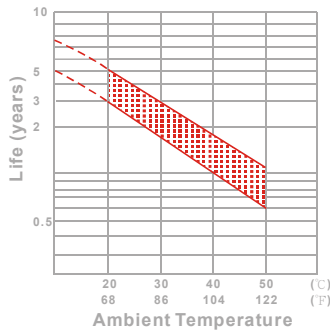
Effect of Temperature on Capacity 25°C(77°F)



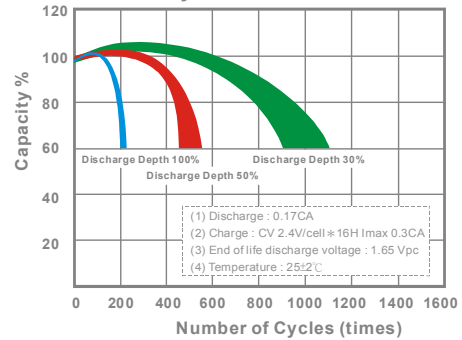
Capacity Retention Characteristic



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	1.8V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	136	151	158	165	168	170	175
10	min	92	97	101	105	107	109	112
15	min	73.5	76.5	78.5	80.5	81.0	82.5	84.5
30	min	39.1	41.1	42.4	43.4	43.8	44.2	44.8
60	min	25.3	26.2	26.9	27.5	27.7	27.9	28.4
120	min	12.6	13.2	13.9	15.7	15.8	16.0	16.2
180	min	9.8	10.4	10.8	11.2	11.3	11.5	11.6
240	min	8.61	9.02	9.30	9.45	9.5	9.6	9.7
300	min	7.40	7.63	7.90	8.04	8.10	8.15	8.20
600	min	4.34	4.51	4.60	4.66	4.67	4.69	4.70
1200	min	2.08	2.16	2.21	2.25	2.27	2.28	2.31

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

End Voltage		1.85V	1.8V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	23.5	26.4	28.1	29.7	30.5	31.3	32.6
10	min	16.2	17.0	18.2	18.6	18.8	19.1	19.8
15	min	12.5	13.1	13.6	13.9	14.0	14.2	14.5
30	min	6.61	6.92	7.14	7.30	7.38	7.45	7.61
60	min	3.98	4.13	4.25	4.36	4.39	4.42	4.48
120	min	2.05	2.14	2.21	2.27	2.29	2.32	2.35
180	min	1.63	1.69	1.75	1.80	1.82	1.84	1.87
240	min	1.30	1.37	1.42	1.45	1.46	1.47	1.49
300	min	1.11	1.16	1.23	1.25	1.26	1.27	1.28
600	min	0.650	0.680	0.721	0.728	0.732	0.737	0.747
1200	min	0.341	0.357	0.377	0.382	0.384	0.387	0.392

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%)