

## WP14-12SE 12Volt 14Ah

### Specifications

Nominal Voltage(V) **12V**

#### Nominal Capacity

20 hour rate	(0.7A to 10.50V)	<b>14Ah</b>
10 hour rate	(1.33A to 10.50V)	<b>13.3Ah</b>
5 hour rate	(2.38A to 10.20V)	<b>11.9Ah</b>
1 C	(14A to 9.60V)	<b>7.93Ah</b>
3 C	(42A to 9.60V)	<b>5.6Ah</b>

Weight **Approx. 4.4kg(9.68Lbs.)**

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

#### Maximum Discharge Current for

5 seconds: **210A**

#### Charging Methods at 25°C (77°F)

##### Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient **-5.0mV/°C/cell**

Maximum Charging Current : **4.2A**

##### 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 )

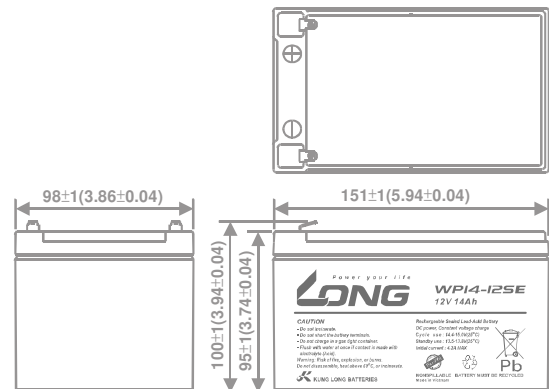
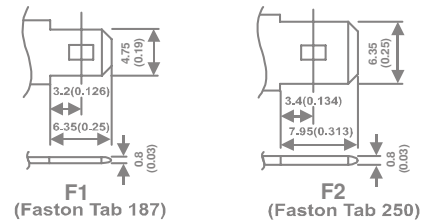
#### Terminal

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

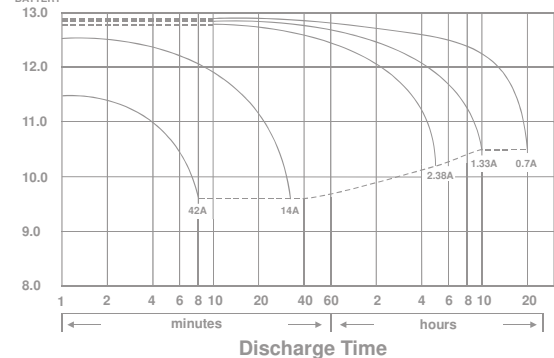


### Dimensions

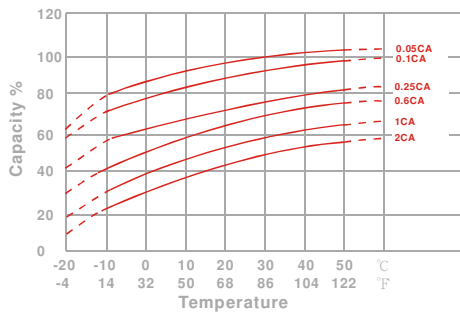
mm(inch)



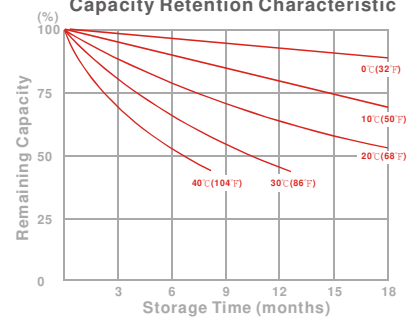
(V) Discharge Time VS. Discharge Current (25°C)



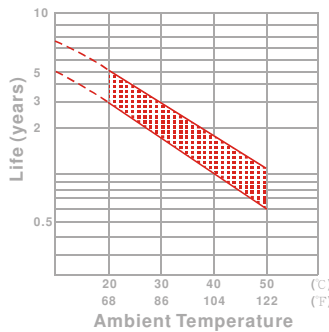
Effect of Temperature on Capacity 25°C(77°F)



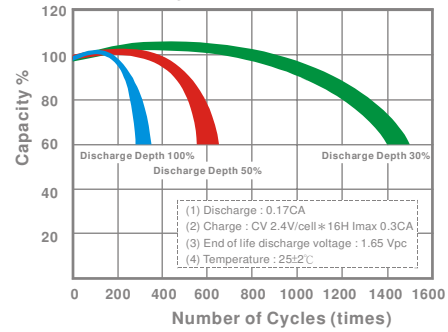
Capacity Retention Characteristic



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	449	511	554	593	608	626	639
10	min	313	352	384	408	420	428	436
15	min	237	258	277	290	295	303	307
30	min	154	165	172	177	179	181	183
60	min	102	107	111	114	115	116	117
120	min	57.5	60.3	61.8	62.9	63.3	63.8	64.4
180	min	41.1	42.4	43.3	44.1	44.4	44.7	45.2
240	min	32.2	33.1	33.8	34.4	34.6	34.9	35.3
300	min	27.5	28.2	28.7	29.1	29.3	29.5	29.7
600	min	15.4	15.9	16.3	16.6	16.7	16.8	16.9
1200	min	8.32	8.47	8.59	8.69	8.73	8.76	8.80

## - 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	44.5	49.9	53.9	58.0	60.4	62.9	65.2
10	min	31.5	33.7	35.8	37.9	38.8	39.9	40.8
15	min	22.9	24.4	25.5	26.8	27.3	28.2	28.6
30	min	13.6	14.2	14.8	15.3	15.6	15.8	16.1
60	min	8.67	9.09	9.42	9.69	9.83	9.92	10.0
120	min	4.60	4.81	4.92	5.04	5.07	5.13	5.35
180	min	3.38	3.47	3.54	3.60	3.62	3.66	3.72
240	min	2.61	2.66	2.73	2.79	2.81	2.85	2.90
300	min	2.27	2.32	2.35	2.38	2.39	2.41	2.43
600	min	1.21	1.27	1.32	1.35	1.36	1.37	1.38
1200	min	0.664	0.692	0.705	0.710	0.712	0.715	0.718

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%)