

## WP10-12SE 12Volt 10Ah

### Specifications

Nominal Voltage(V) **12V**

#### Nominal Capacity

20 hour rate	(0.5A	to	10.50V)	<b>10Ah</b>
10 hour rate	(0.95A	to	10.50V)	<b>9.5Ah</b>
5 hour rate	(1.7A	to	10.20V)	<b>8.5Ah</b>
1 C	(10A	to	9.60V)	<b>6.33Ah</b>
3 C	(30A	to	9.60V)	<b>4Ah</b>

Weight **Approx. 3.13kg(6.89Lbs.)**

Internal Resistance (at 1KHz) **Approx. 11 mΩ**

#### Maximum Discharge Current for

5 seconds: **150A**

#### Charging Methods at 25°C (77°F)

##### Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient **-5.0mV/°C/cell**

Maximum Charging Current : **3A**

##### 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**

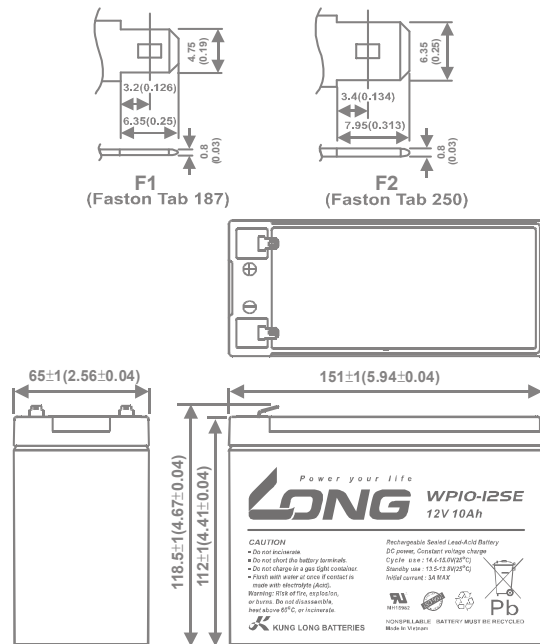
(Option: UL94 HB & UL94 V-0 flame retardant )

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

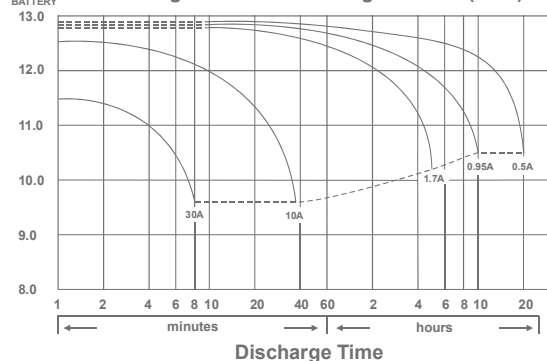


### Dimensions

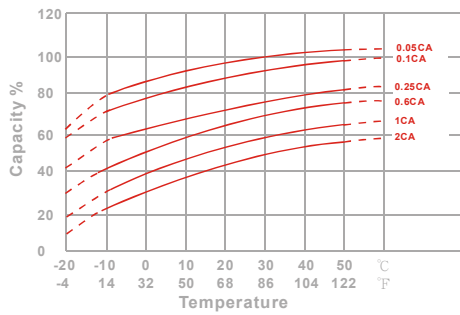
mm(inch)



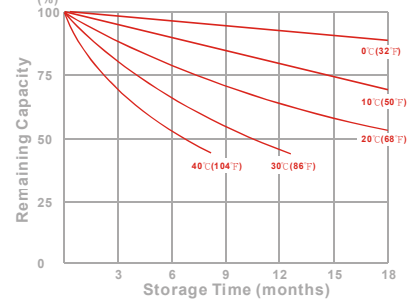
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



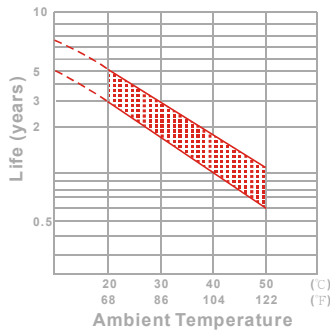
Effect of Temperature on Capacity 25°C(77°F)



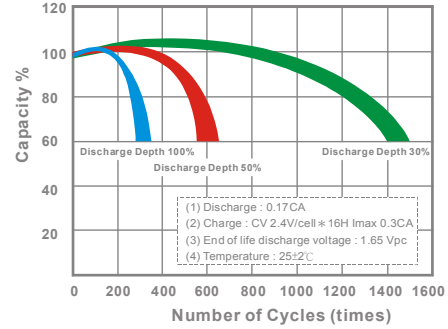
Capacity Retention Characteristic



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	298	343	361	376	382	388	395
10	min	226	247	258	266	269	273	278
15	min	175	188	196	202	205	208	211
30	min	110	115	118	120	122	123	124
60	min	62.6	67.3	69.8	71.2	71.8	72.5	73.3
120	min	35.3	38.6	40.3	41.5	42.0	42.6	43.2
180	min	27.4	29.7	31.2	32.3	32.6	33.1	33.6
240	min	22.7	23.5	24.1	24.6	24.8	25.1	25.4
300	min	19.9	20.5	20.9	21.2	21.4	21.6	21.8
600	min	11.5	11.8	12.1	12.4	12.5	12.6	12.8
1200	min	6.36	6.55	6.68	6.87	6.92	6.96	7.03

### - 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	24.6	29.3	32.7	34.1	34.9	35.6	36.1
10	min	21.4	24.1	25.6	26.7	27.1	27.6	28.3
15	min	15.6	17.2	18.4	19.1	19.5	19.9	20.4
30	min	10.7	11.3	11.8	12.2	12.4	12.6	12.8
60	min	5.69	6.03	6.26	6.45	6.58	6.63	6.69
120	min	3.24	3.39	3.48	3.56	3.59	3.62	3.67
180	min	2.55	2.63	2.68	2.72	2.74	2.76	2.79
240	min	1.96	2.01	2.05	2.08	2.09	2.11	2.12
300	min	1.69	1.72	1.74	1.76	1.77	1.78	1.79
600	min	0.974	1.00	1.02	1.04	1.05	1.06	1.07
1200	min	0.525	0.527	0.532	0.536	0.538	0.541	0.544

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%)