

### ⚡ Specifications

#### Nominal Voltage(V)

12V

#### Nominal Capacity

580W @ 5min-rate to 9.60V per PCS

5 hour rate	(1.53A to 10.20V)	7.65Ah
1C	(9A to 9.60V)	5.7Ah
3C	(27A to 9.60V)	3.6Ah

#### Weight

Approx. 2.85kg(6.27Lbs.)

#### Internal Resistance (at 1KHz)

Approx. 11 mΩ

#### Maximum Discharge Current for

5 seconds: 135A

#### Charging Methods at 25°C(77°F)

Maximum Charging Current :	2.7A
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	92%
3 month	90%
6 month	80%

#### Case Material

ABS UL94 HB  
Option: Flammability resistance of (UL94 V-0)

#### Design Life

3-5 Years.

#### Terminal

F2



### ⚡ Dimensions

#### Length (L)

151±1 (5.94±0.04)

#### Width (W)

65±1 (2.56±0.04)

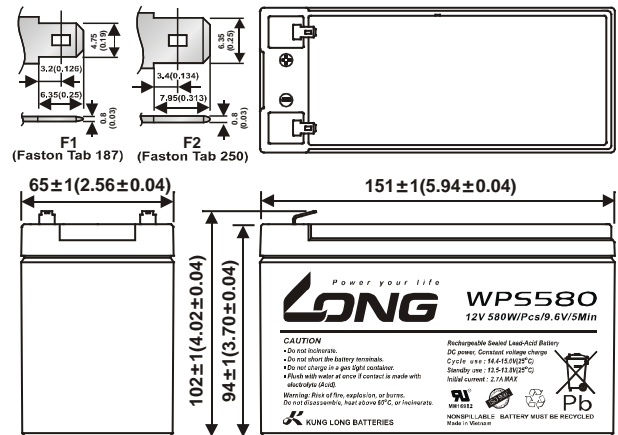
#### Height (H)

94±1 (3.70±0.04)

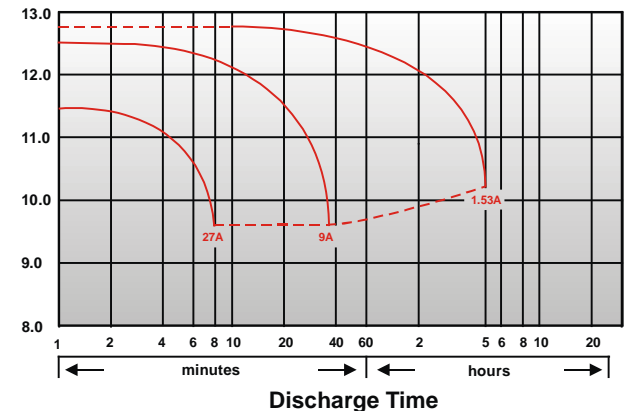
#### Overall Height (HT)

102±1 (4.02±0.04)

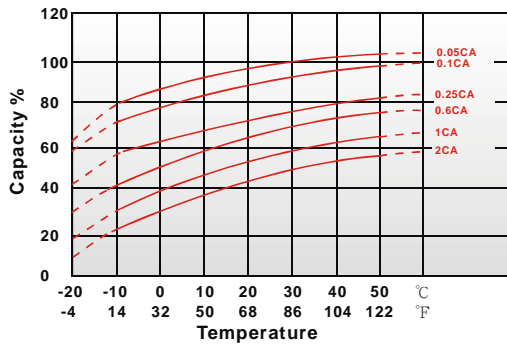
mm(inch)



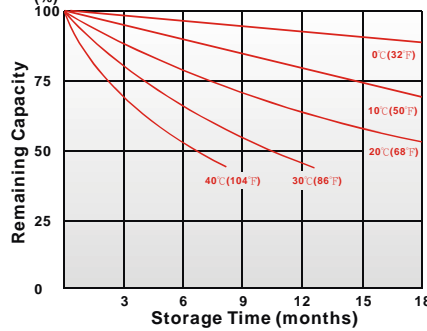
(v) FOR 12V BATTERY **Discharge Time VS. Discharge Current (25°C)**



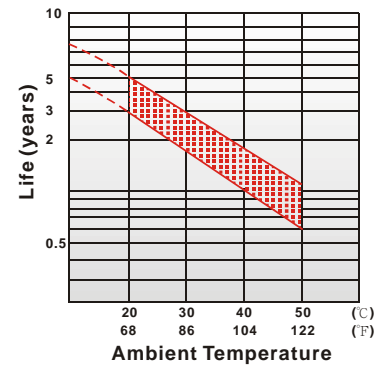
Effect of Temperature on Capacity 25°C(77°F)



Capacity Retention Characteristic



Trickle (or float) Service Life



### - 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	1.60V
2	min	113	126	134	142	147	152
4	min	86.4	95.5	101	104	107	108
5	min	77.9	84.9	88.7	92.0	93.3	96.7
6	min	71.3	77.0	80.9	82.9	84.2	85.0
8	min	57.2	64.4	66.3	68.0	69.3	70.2
10	min	49.5	54.3	57.7	59.4	60.2	60.7
15	min	38.5	40.8	42.7	43.2	43.7	44.1
20	min	31.3	32.9	34.1	34.5	34.8	35.0
30	min	23.2	24.0	24.9	25.4	25.9	26.2
45	min	16.7	17.0	17.3	17.7	18.0	18.2
60	min	13.3	13.7	14.0	14.0	14.1	14.1
90	min	9.35	9.69	9.82	9.89	9.94	9.97
120	min	5.67	5.78	5.87	5.95	6.04	6.12
180	min	4.60	4.73	4.82	4.87	4.92	4.95
240	min	3.72	3.83	3.90	3.93	3.97	3.98
300	min	2.90	3.01	3.08	3.12	3.15	3.21
600	min	1.64	1.69	1.72	1.74	1.76	1.78
1200	min	0.861	0.890	0.910	0.915	0.918	0.922

#### - 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	1.60V
2	min	58.4	64.4	70.4	79.4	87.4	93.5
4	min	43.9	47.9	51.2	54.2	57.2	61.2
5	min	38.7	41.9	44.5	47.3	50.1	52.8
6	min	36.7	39.5	41.4	43.0	44.4	45.8
8	min	30.6	33.5	36.0	36.5	36.9	37.6
10	min	26.4	28.7	30.2	31.2	32.0	32.6
15	min	19.8	21.3	22.3	22.6	22.8	22.9
20	min	16.0	17.1	17.7	18.0	18.3	18.5
30	min	11.9	12.4	12.8	13.0	13.2	13.4
45	min	8.36	8.78	9.10	9.27	9.38	9.47
60	min	6.63	6.99	7.18	7.28	7.36	7.40
90	min	4.75	4.96	5.08	5.20	5.29	5.33
120	min	3.27	3.52	3.62	3.70	3.78	3.85
180	min	2.32	2.38	2.42	2.46	2.50	2.52
240	min	1.71	1.75	1.78	1.80	1.82	1.84
300	min	1.47	1.52	1.55	1.57	1.59	1.60
600	min	0.830	0.861	0.882	0.884	0.885	0.886
1200	min	0.430	0.442	0.450	0.453	0.456	0.458

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%)

100420-1C