

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Capacity

20 hour rate	(0.85A to 10.50V)	17Ah
10 hour rate	(1.615A to 10.50V)	16.15Ah
5 hour rate	(2.89A to 10.20V)	14.45Ah
1 C	(17A to 9.60V)	9.63Ah
3 C	(51A to 9.60V)	6.8Ah

Weight

Approx. 5.6kg(12.32Lbs.)

Internal Resistance (at 1KHz)

Approx. 10.5 mΩ

Maximum Discharge Current for

5 seconds: 255A

Charging Methods at 25°C(77°F)

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient	-5.0mV/°C/cell
Maximum Charging Current :	5.1A
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

F3



⚡ Dimensions

Length (L)

181±2-1 (7.13±0.08-0.04)

Width (W)

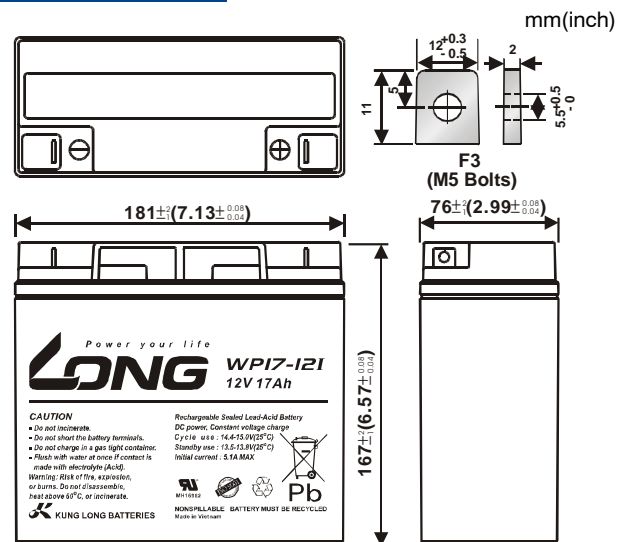
76±2-1 (2.99±0.08-0.04)

Height (H)

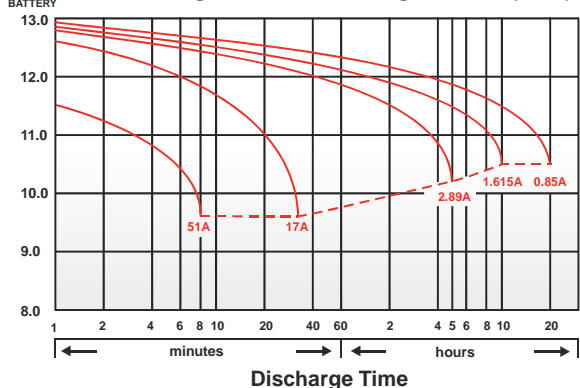
167±2-1 (6.57±0.08-0.04)

Overall Height (HT)

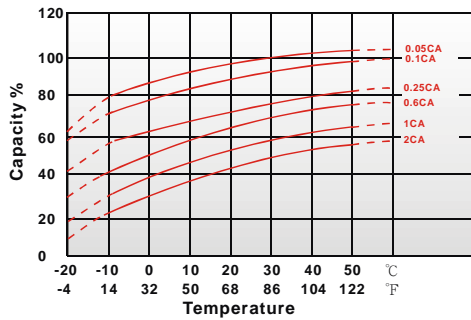
167±2-1 (6.57±0.08-0.04)



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



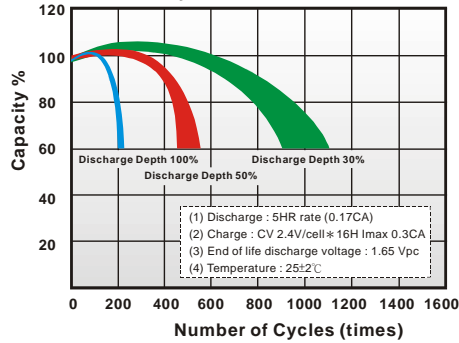
Effect of Temperature on Capacity 25°C (77°F)



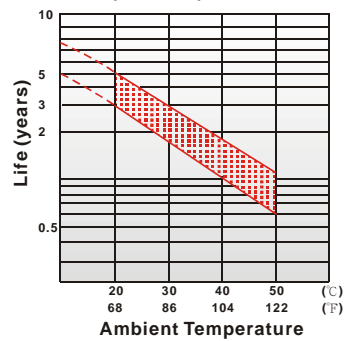
Capacity Retention Characteristic



Cycle Service Life



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	1.65V	1.60V
Time								
5	min	97.0	114	126	132	134	136	138
10	min	65.7	75.6	82.8	87.3	88.4	89.9	91.1
15	min	56.0	63.2	68.0	71.0	71.9	72.8	73.6
30	min	32.0	34.4	37.0	38.6	39.0	39.5	39.9
60	min	18.5	19.4	20.3	20.9	21.1	21.4	21.7
120	min	11.6	12.2	12.4	12.9	13.0	13.1	13.2
180	min	8.58	8.92	9.15	9.34	9.41	9.49	9.58
240	min	6.50	6.79	6.97	7.12	7.17	7.24	7.32
300	min	5.70	5.93	6.04	6.14	6.17	6.22	6.28
600	min	3.33	3.45	3.53	3.59	3.61	3.65	3.68
1200	min	1.73	1.80	1.85	1.88	1.89	1.91	1.92

- 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	61.3	66.9	70.5	73.6	74.9	76.2	78.6
10	min	37.8	41.0	43.4	45.6	46.5	47.4	49.1
15	min	31.3	33.9	35.6	36.9	37.4	38.0	38.9
30	min	17.1	18.3	19.4	20.3	20.6	21.0	21.5
60	min	9.55	10.1	10.5	10.8	10.9	11.1	11.3
120	min	5.86	6.11	6.26	6.40	6.45	6.51	6.59
180	min	4.26	4.43	4.55	4.64	4.66	4.70	4.75
240	min	3.36	3.45	3.51	3.55	3.56	3.58	3.61
300	min	2.90	2.96	3.01	3.05	3.06	3.08	3.10
600	min	1.70	1.73	1.76	1.78	1.79	1.80	1.81
1200	min	0.875	0.896	0.912	0.927	0.933	0.940	0.943

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%)

281018-1C