

⚡ Specifications

Nominal Voltage(V)

12V

Nominal Capacity

20 hour rate	(0.85A	to	10.50V)	17Ah
5 hour rate	(2.89A	to	10.20V)	14.45Ah
1 hour rate	(9.35A	to	9.60V)	9.35Ah
1 C	(17A	to	9.60V)	9.07Ah

Weight

Approx. 6.3kg(13.86Lbs.)

Internal Resistance (at 1KHz)

Approx. 10 mΩ

Maximum Discharge Current for

5 seconds:255A

Charging Methods at 25°C(77°F)

Cycle use:

Charging Voltage 13.8 to 14.4V

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

7-10 Years.

Terminal

F3



⚡ Dimensions

Length (L)

$181 \pm 1^2 (7.13 \pm 0.08)$

Width (W)

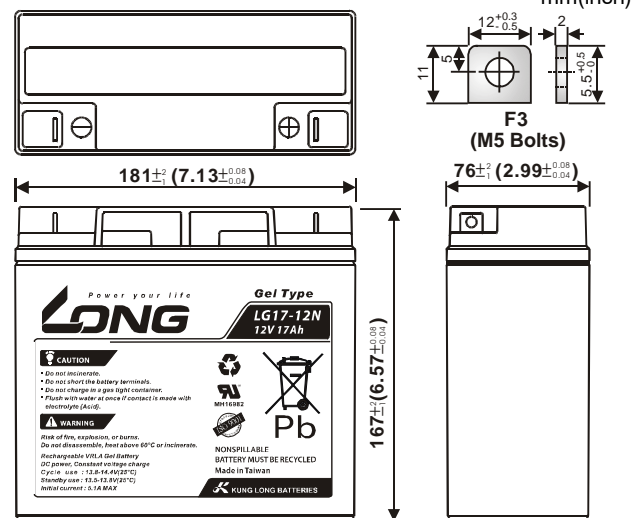
$76 \pm 1^2 (2.99 \pm 0.08)$

Height (H)

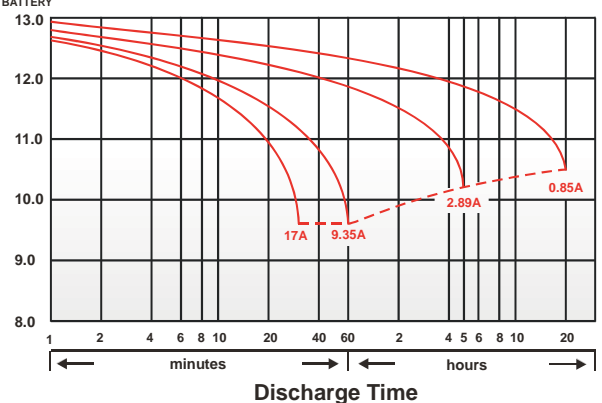
$167 \pm 1^2 (6.57 \pm 0.08)$

Overall Height (HT)

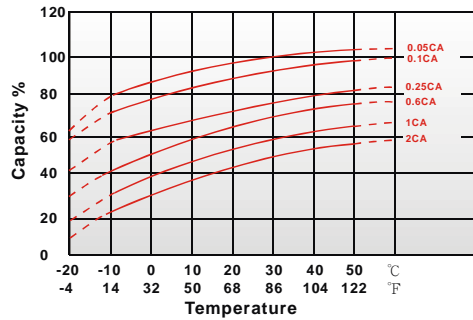
$167 \pm 1^2 (6.57 \pm 0.08)$



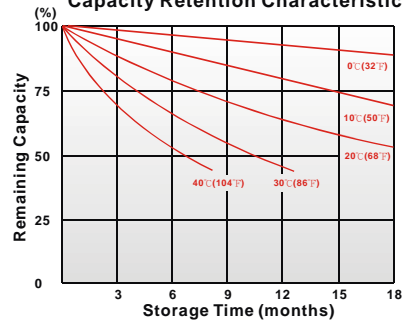
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



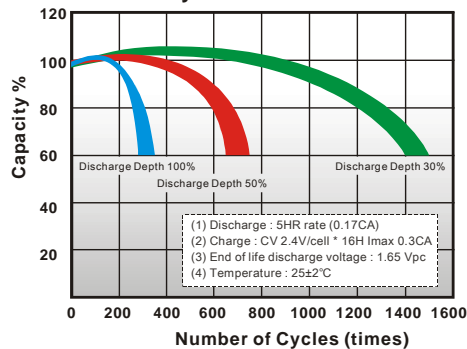
Effect of Temperature on Capacity 25°C (77°F)



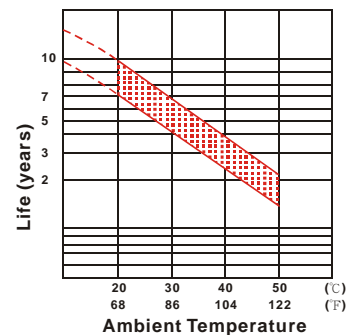
Capacity Retention Characteristic



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	90.5	106.3	116.8	123.1	124.8	126.8	128.5
10	min	63.6	72.7	79.4	83.5	84.5	85.8	86.9
15	min	54.7	61.0	65.2	67.8	68.5	69.3	70.0
30	min	29.9	32.0	34.4	35.9	36.3	36.7	37.1
60	min	19.1	20.1	20.8	21.5	21.6	21.9	22.2
120	min	11.1	11.7	11.9	12.3	12.4	12.5	12.7
180	min	8.38	8.72	8.94	9.14	9.20	9.28	9.37
240	min	6.66	6.95	7.13	7.28	7.32	7.39	7.47
300	min	5.83	6.06	6.17	6.27	6.30	6.35	6.41
600	min	3.48	3.59	3.68	3.74	3.76	3.80	3.82
1200	min	1.80	1.86	1.91	1.94	1.96	1.98	1.99

- 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	60.3	65.4	68.7	71.6	72.7	74.0	76.1
10	min	36.5	39.4	41.7	43.7	44.5	45.4	46.9
15	min	28.7	31.0	32.5	33.8	34.3	34.9	35.7
30	min	15.8	17.2	18.2	19.0	19.3	19.6	20.1
60	min	9.59	10.2	10.6	11.0	11.1	11.3	11.5
120	min	5.71	5.92	6.05	6.17	6.20	6.25	6.32
180	min	4.17	4.33	4.43	4.50	4.53	4.57	4.63
240	min	3.40	3.49	3.56	3.61	3.63	3.66	3.69
300	min	2.96	3.03	3.08	3.12	3.13	3.15	3.17
600	min	1.72	1.77	1.81	1.84	1.85	1.86	1.87
1200	min	0.920	0.939	0.954	0.964	0.967	0.971	0.975

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%)

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