

LG24-12 12Volt 24Ah

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

20 hour rate	(1.2A	to	10.50V)	24Ah
5 hour rate	(4.08A	to	10.20V)	20.4Ah
1 hour rate	(13.2A	to	9.60V)	13.2Ah
1 C	(24A	to	9.60V)	12.8Ah

Weight **Approx. 9.5kg(20.9Lbs.)**

Internal Resistance (at 1KHz) **Approx. 7 mΩ**

Maximum Discharge Current for

5 seconds: **360A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **13.8 to 14.4V**

Coefficient -5.0mV/ /cell

Maximum Charging Current : **7.2A**

Standby use:

Float Charging Voltage **13.5 to 13.8V**

Coefficient -3.0mV/ /cell

Operating Temperature Range

Charge **-15 (5) to 40 (104)**

Discharge **-15 (5) to 50 (122)**

Storage **-15 (5) to 40 (104)**

Charge Retention (shelf life) at 20 (68)

1 month **92%**

3 month **90%**

6 month **80%**

Case Material **ABS UL94 HB**

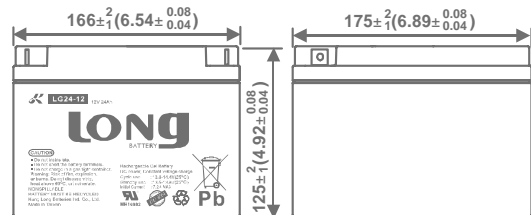
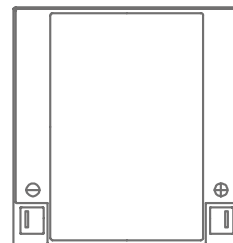
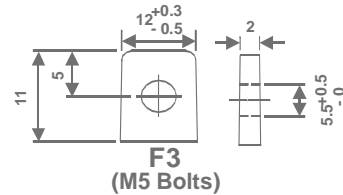
Option: Flammability resistance of (UL94 V-0)

Terminal **F3**

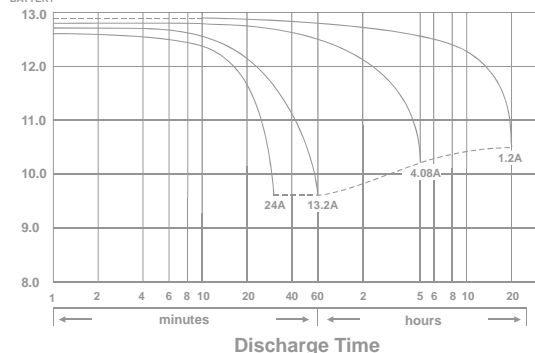


Dimensions

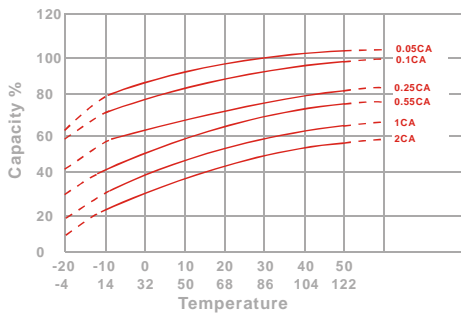
mm(inch)



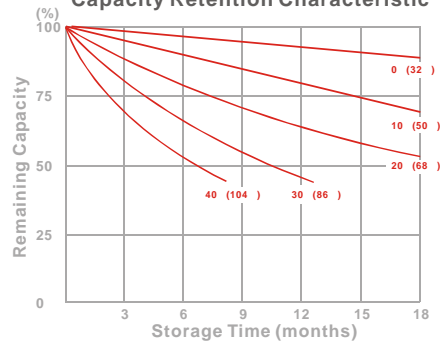
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25)



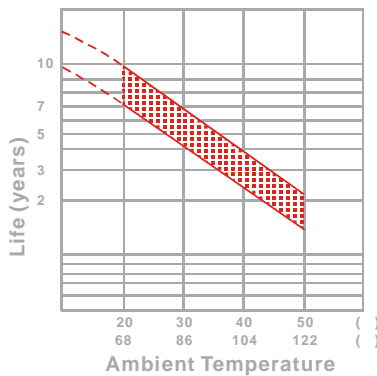
Effect of Temperature on Capacity 25 (77)



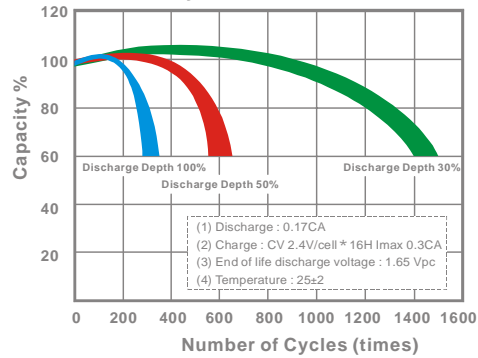
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25 (77)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	133	151	163	170	172	174	174
10	min	91.2	101	106	110	114	117	122
15	min	67.0	77.2	82.0	86.6	88.5	90.2	92.7
30	min	35.5	41.1	45.1	47.8	48.4	49.3	50.3
60	min	23.2	25.5	27.3	28.8	29.3	29.8	30.5
120	min	15.5	16.7	17.5	18.2	18.3	18.7	19.0
180	min	11.5	12.2	12.6	12.9	13.0	13.1	13.3
240	min	9.38	9.95	10.2	10.4	10.5	10.6	10.7
300	min	8.15	8.50	8.65	8.77	8.80	8.85	8.92
600	min	4.60	4.85	5.04	5.18	5.21	5.25	5.30
1200	min	2.53	2.62	2.68	2.73	2.74	2.76	2.78

- Discharge Rates in Amperes to Various End Voltages at 25 (77)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	67.0	79.6	88.5	94.2	95.9	97.7	99.5
10	min	47.2	53.1	56.0	58.7	60.8	62.5	65.6
15	min	32.6	38.2	42.1	45.3	46.5	47.4	48.7
30	min	18.2	21.4	23.7	25.4	25.9	26.6	27.1
60	min	14.3	15.1	15.5	15.9	16.0	16.2	16.4
120	min	8.41	8.79	9.04	9.27	9.34	9.40	9.49
180	min	5.75	6.06	6.29	6.51	6.58	6.64	6.73
240	min	4.89	5.17	5.36	5.52	5.56	5.60	5.67
300	min	4.15	4.38	4.56	4.70	4.73	4.77	4.82
600	min	2.21	2.36	2.47	2.56	2.58	2.61	2.64
1200	min	1.17	1.24	1.29	1.33	1.34	1.36	1.38

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%)