

LGK150-12N 12Volt 150Ah

Specifications

Nominal Voltage(V) 12V

Nominal Capacity

20 hour rate	(7.5A	to	10.50V)	150Ah
5 hour rate	(25.5A	to	10.20V)	127.5Ah
1 hour rate	(82.5A	to	9.60V)	82.5Ah
1 C	(150A	to	9.60V)	80Ah

Weight Approx. 46.5kg(102Lbs.)

Internal Resistance (at 1KHz) Approx. 6 mΩ

Maximum Discharge Current for

5 seconds: 1500A

Charging Methods at 25 (77)

Cycle use:

Charging Voltage 13.8 to 14.4V

Coefficient -5.0mv/ /cell

Maximum Charging Current : 45A

Standby use:

Float Charging Voltage 13.50 to 13.80V

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 98%

3 month 94%

6 month 85%

Case Material

ABS

(UL94-V0 flame retardant case / cover)

Terminal

F16

Description of torque value of hard ware for the terminals:

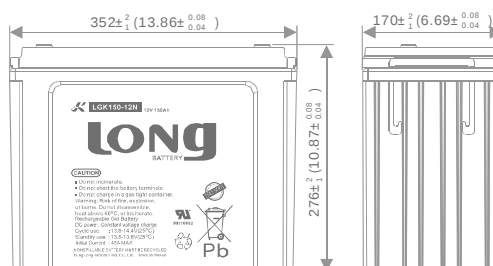
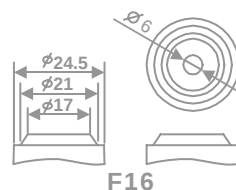
Recommended torque value M6: 5.39 N-m (55kg-cm)

Maximum allowable torque value M6: 8.82 N-m (90kg-cm)

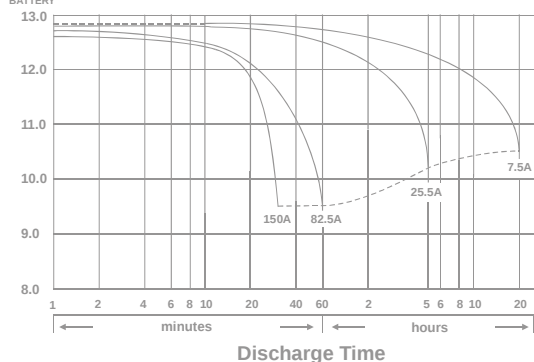


Dimensions

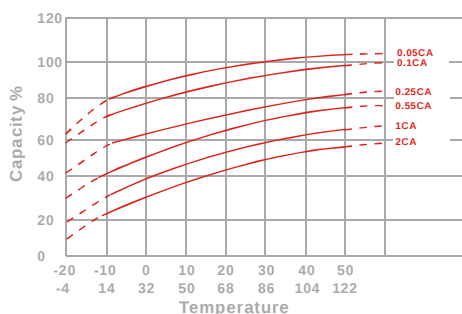
mm(inch)



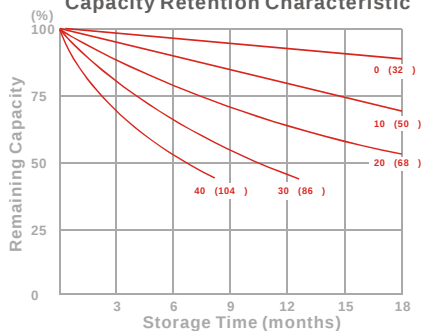
(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25)



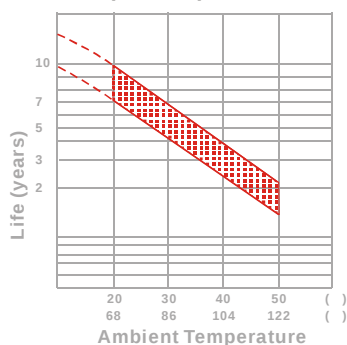
Effect of Temperature on Capacity 25 (77 °)



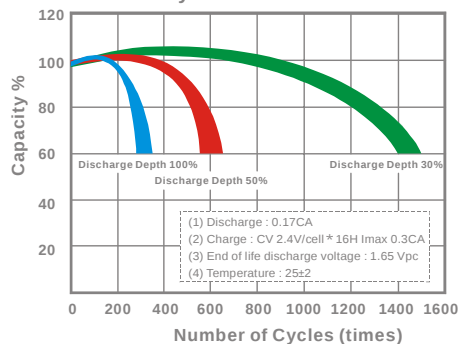
Capacity Retention Characteristic



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	3029	3379	3685	3947	4075	4208	4460
10	min	2707	2946	3088	3226	3290	3357	3485
15	min	2390	2529	2629	2726	2771	2818	2901
30	min	1396	1470	1525	1578	1598	1621	1661
60	min	853	903	937	961	969	977	990
120	min	463	491	507	520	525	533	544
180	min	379	404	417	429	434	441	449
240	min	309	326	336	343	346	350	355
300	min	275	286	294	300	302	305	309
600	min	162	169	175	180	181	183	186
1200	min	86.1	88.7	91.1	93.2	94.2	95.0	96.0

- 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	266	336	375	401	413	425	441
10	min	221	248	273	293	302	311	327
15	min	196	221	239	250	255	260	275
30	min	120	131	140	147	150	153	157
60	min	72.1	80.3	83.3	85.5	86.7	88.0	90.0
120	min	38.3	44.0	45.7	46.9	47.4	48.0	48.9
180	min	30.3	33.7	34.9	35.9	36.4	36.8	37.4
240	min	24.0	26.7	27.7	28.6	28.8	29.1	29.5
300	min	22.8	24.1	24.9	25.5	25.6	26.0	26.3
600	min	13.7	14.3	14.5	14.7	14.8	15.0	15.1
1200	min	7.19	7.37	7.50	7.63	7.67	7.73	7.79

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%)

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